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October 15, 2015

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Remediation and Reuse Branch
Land and Chemicals Division
United States Environmental Protection Agency, Region 5
77 West Jackson Boulevard, LU-9J
Chicago, IL 60604

Subject: Progress Report, Second and Third Quarters 2015
MAHLE Behr Properties Management, LLC
250 Northwoods Blvd.
Vandalia, Ohio
US EPA ID #OH0 000 048 454

Dear Ms. Greensley:

This submittal constitutes the progress report for work undertaken during the second and third quarters of 2015, related to the above-referenced Facility. As you are aware, MAHLE Behr Properties Management, LLC ("MAHLE") acquired the Vandalia Facility from Delphi Automotive Systems, LLC ("Delphi") on June 30, 2015. The work described herein includes activities undertaken by Delphi through June 30, 2015 in accordance with the Delphi Automotive Systems LLC ("Old Delphi") RCRA 3008(h) Administrative Order on Consent, Docket No. R8H-5-02-001, January 22, 2002. Beginning June 30, 2015, MAHLE, pursuant to the terms of the purchase agreement between MAHLE and Delphi, has continued to operate the system and continued management of the project while MAHLE and the United States Environmental Protection Agency ("EPA") negotiate a new Administrative Order on Consent.

Work Performed by Delphi during the Second Quarter 2015 (April 1, 2015 – June 30, 2015)

- Twenty-five (25) monitoring wells, consisting of one (1) Top of Rock, one (1) Middle Brassfield, five (5) Sugar Rock, and eighteen (18) Overburden locations, were sampled and analyzed during the second quarter 2015 as part of the routine sampling program (Figure 1, Tables 1 and 2).
- Two (2) surface water samples from selected locations along the unnamed tributary of North Creek and nine (9) Sugar Rock spring locations were collected and analyzed during the second quarter 2015 (Figures 2 and 3, Table 3).
- Conducted three (3) rounds of Sugar Rock and Intermediate Bedrock water levels, one (1) round of Top of Rock water levels, and one (1) round of Overburden water levels (Figures 4, 6, 8, 10, 12, 13, and 14; Attachment A).
- Sampled and analyzed monthly groundwater migration control system monitoring points, consisting of extracted Sugar Rock and Overburden (Water Table/First Sand and Second Sand) groundwater prior to treatment and treated groundwater effluent for NPDES compliance (Table 4).
- Sampled private potable water well on May 4, 2015, at 10440 Cassel Road as part of ongoing semi-annual monitoring at this location.
- Continued operation of the groundwater migration control system. Second quarter 2015 monthly discharge reports, system activity logs, site inspection checklists, and system shutdown reports are included in Attachments C-F, respectively.

- Completed installation of two new overburden wells (identified as MW-814 and MW-815) on April 27-29, 2015. These wells comprise two of the three new wells referenced in the 2013 Three-year Assessment submitted by Delphi as Wells B and C, respectively. MW-814 is located outside between Bldg. 48B and Northwoods Blvd., downgradient of MW-806. MW-815 is located inside Bldg. 48B, downgradient of MW-809. Both wells are screened across the water table and first sand. These wells were sampled on May 19, 2015, during routine groundwater sampling under the Long Term Monitoring Plan. Installation of the third well, to be located on Spears property north of Northwoods Blvd., remained pending because Delphi was unable to finalize a formal access agreement with Spears.
- Replaced bedrock recovery well pump on May 14, 2015, due to observed reduced pumping capacity. The carbon steel drop pipe was replaced with Certa-Lok PVC pipe.
- Replaced overburden pump controller on June 30, 2015, which had been damaged during severe weather conditions. The variable frequency drive was also reprogrammed to reduce maximum pumping rate to address short-term excess flow to the migration control treatment system after precipitation events, which can cause system shut-downs.

Work Performed by MAHLE during the Third Quarter 2015 (July 1, 2015 – September 30, 2015)

- Five (5) Top of Rock wells were sampled during September 10-11, 2015, as part of an evaluation of the apparent groundwater depression in the Top of Rock zone in the vicinity of Post 3, and to support evaluation of remedial alternatives to potentially reduce VOC concentrations in the Top of Rock zone. (Figure 1, Tables 1 and 2).
- Two (2) surface water samples from selected locations along the unnamed tributary of North Creek were collected and analyzed during the third quarter 2015 (Figure 2, Table 3).
- Conducted three (3) rounds of Sugar Rock and Intermediate Bedrock water levels, one (1) round of Top of Rock water levels, and one (1) round of Overburden water levels (Figures 5, 7, 9, 11, 15, 16, and 17; Attachment A).
- Sampled and analyzed monthly groundwater migration control system monitoring points, consisting of extracted Sugar Rock and Overburden (Water Table/First Sand and Second Sand) groundwater prior to treatment and treated groundwater effluent for NPDES compliance (Table 4).
- Transmitted results of private well sampling conducted by Delphi at 10440 Cassel Road to the property owner on September 23, 2015. Results show no detections of constituents of concern.
- Continued operation of the groundwater migration control system. Third quarter 2015 monthly discharge reports, system activity logs, site inspection checklists, and system shutdown reports are included in Attachments C-F, respectively.
- Received a fully executed copy of the “Assignment of Right of Access” agreement on August 12, 2015 between MAHLE, Delphi and Pilot, effective June 30, 2015, for continued monitoring on Pilot property.
- Finalized the “Assignment” agreement between MAHLE, Delphi and CSX and an “Amendment” to the existing access agreement between Delphi and CSX, now MAHLE and CSX, effective June 30, 2015, for continued monitoring on CSX properties. Fully executed copies were pending at end of third quarter 2015.
- Continued discussions with Spears Property Management (Spears) regarding long term access to their property, including planned installation of one new overburden monitoring well (referenced as Well A in the 2013 Three-year Assessment) and long term monitoring of groundwater and surface water. This property consists of approximately 17.2 acres located northeast of the intersection of Northwoods Blvd. and Dixie Drive between the (Pilot) Flying J Travel Center and the Dayton International Airport. Twelve existing monitoring wells and one surface water sampling point are located on this property. Although Spears had initially indicated plans for development of the property as a truck terminal and warehouse, they have now indicated that they have no plans for development and that the property is

for sale. Continued access for monitoring on this property is provided through the existing Environmental Covenant recorded March 11, 2008. MAHLE continues to work with Spears on an access agreement covering installation of the new well and long term access for monitoring. A proposed "Right of Access Agreement" was sent to Spears on August 11, 2015 via email, fax and USPS. A follow-up phone call was placed on September 28, 2015, however, no further progress was made with Spears during this reporting period on finalizing an access agreement.

- Completed field work during the week of September 14, 2015, for continued delineation of PCBs in subslab soils related to the demolished western portion of the site. The work consisted of sixteen (16) Geoprobe borings generally to ten feet below ground surface in one area where delineation in soil had not yet been achieved in previous field events.
- Replaced air stripper float assembly on July 23, 2015. This unit incorporates an improved design which will reduce system shut-downs due to high water level in the air stripper sump.
- Implemented preliminary pumping test on September 23, 2015, on one Top of Rock well (MW-424S). This work was performed as a preliminary test to support evaluation of remedial alternatives to potentially reduce VOC concentrations in the Top of Rock zone and to shorten the duration of groundwater migration control activities.

Data Collected by Delphi and MAHLE

- Groundwater samples were analyzed from twenty-five (25) monitoring wells during second quarter 2015 and five (5) monitoring well during third quarter 2015. The analytical results from groundwater sampling during the second and third quarter 2015 are included in Table 2. The second quarter 2015 TCE levels in the Sugar Rock are illustrated in Figure 18.
- Analytical results of surface water samples collected in the unnamed tributary to North Creek and Sugar Rock outcrop spring samples are included in Table 3. Surface water locations with TCE results are illustrated in Figure 2; Sugar Rock spring TCE and DCE results are shown in Figure 3.
- Analytical results of monthly migration control system samples are presented in Table 4.
- Seventy-two (72) soil samples were collected from sixteen (16) soil borings to delineate PCBs in soil under the former Building 31 concrete slab in one area where PCBs had been detected above 1 ppm under the slab during previous investigation work. Results will be summarized in a separate report after completion of the investigation.

Performance Evaluation and Problems Encountered

- The bedrock groundwater migration control system was operational for approximately 96.0% of the second and third quarters 2015. System downtime was due to high pressure at carbon vessels, carbon backwashing, bedrock pump replacement, excess influent flow due to rain events, and replacement of air stripper float assembly.
- DNAPL recovery wells were inspected for the presence of DNAPL in both the second and third quarters 2015. Based on bailer checks, no wells contained visible DNAPL; subsequently, no DNAPL recovery was performed during these quarters.
- A new planned overburden well, identified in the sampling schedule as Well A, has not yet been installed. Installation of this well, which will be located on Spears property north of Northwoods Blvd., is pending finalization of an access agreement with the property owner. MAHLE will continue to work with Spears to secure approval to install the well.
- Since January, 2014, the water level measured in Top of Rock monitoring well MW-423S has been uncharacteristically low compared to nearby monitoring well MW-424S. During previous monitoring, MW-424S has consistently shown the lowest water level with respect to surrounding Top of Rock wells. This change in hydraulic low has been observed during all monitoring events since that time.

Given the high concentrations of TCE historically observed at MW-424S and the current conceptual model that the TCE plume in the Top of Rock is captured by the groundwater depression in this area, additional investigation, including Top of Rock groundwater sampling and water levels, is underway by MAHLE to evaluate the significance of this issue. The outcome of this work will be presented to the EPA in a separate document at a future date.

- During second quarter 2015 groundwater sampling, increased VOC concentrations were identified in MW-413D. MW-413D is a Sugar Rock well located north of Northwoods Blvd. on Pilot property, north of the deep bedrock (Sugar Rock) recovery well, side-gradient of the deep bedrock plume. Results were reported as 7600 ug/l TCE and 2900 ug/l cis-1,2,-DCE, significantly higher than recent results, and the highest concentrations historically reported for this well. TCE typically has been reported from non-detect to the low to mid 100s ug/l, with recent spikes of 1400 and 1500 ug/l in 2012 and 2013. The most recent sampling in 2014 showed an estimated TCE concentration below 1 ug/l. The cause of the increase is unknown. Considering the significance of this increase, MAHLE has undertaken additional evaluation to verify capture of the plume. VOC concentrations in nearest downgradient wells also sampled during second quarter 2015 have not shown any significant change.
- During second quarter and third quarter groundwater sampling, increased VOC concentrations were identified in MW-425S. MW-425S is a Top of Rock well located north of Northwoods Blvd. on Pilot property. Reported results from May 18, 2015 sampling conducted by Delphi were 470 ug/l TCE and 320 ug/l cis-1,2-DCE. Results of subsequent sampling on September 10, 2015 conducted by MAHLE as part of the Top of Rock evaluation, showed 701 ug/l TCE and 342 ug/l cis-1,2,DCE. TCE concentrations fluctuate typically in the low 100s ug/l, but have been at times non-detect and in 2010 had peaked at 440 ug/l. Cis-1,2-DCE typically fluctuates between approximately 50 and 150 ug/l. The previous maximum concentration for cis-1,2-DCE had been 160 ug/l in 2006. Groundwater in the vicinity of MW-425S is likely captured within the groundwater depression, which is now expressed most significantly in the vicinity of MW-423S. No changes have been observed in downgradient wells MW-426S and MW-446SR, roughly 600’ and 500’ away, respectively, which continue to be essentially non-detect for VOCs. Although capture is likely in the vicinity of MW-425S, since these are the highest VOC concentrations historically seen in this well, additional evaluation is underway.
- Intermittent elevated VOC concentrations in the unnamed tributary to North Creek have been observed in a generally increasing trend, typically during wetter seasons. An investigation to help identify possible sources and evaluate whether additional remedial measures are warranted to address VOCs in surface water is underway.
- Results of third quarter 2014 sampling of water table well MW-806 conducted by MAHLE showed a significant increase in VOCs, primarily consisting of cis-1,2-DCE at a concentration of 8100 ug/l, compared to no detection of cis-1,2-DCE during most recent earlier sampling in 2010. This increase was confirmed during resampling in February, 2015, and May, 2015, with cis-1,2-DCE concentrations of 13,000 ug/l and 9100 ug/l, respectively. Results of May, 2015 sampling conducted by Delphi of the new downgradient overburden well MW-814 showed no detections of VOCs.
- Review of second sand potentiometric contours during the previous reporting period led to an evaluation of second sand pumping. Adjustment to the second sand pumping rate has restored effective capture in this unit.
- On September 10, 2015, MAHLE announced plans to consolidate its Vandalia operations into another Dayton area MAHLE facility, and discontinue operations at the Vandalia facility, with the consolidation expected to be complete by December, 2016.

Project Schedule

- An updated project schedule is included in Attachment G.

Feel free to contact me at (248) 813-1428 if you have any questions or require additional information.

Sincerely,

James Hunt
Project Manager for MAHLE Behr Properties, LLC
MAHLE Behr Troy, Inc.
jim.hunt@us.mahle.com

Enclosures:

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1 Schedule of Groundwater Sampling/Water Level Measurements
2 Second Quarter 2015 Analytical Results, Overburden and Bedrock Monitoring Wells
3 Second and Third Quarter 2015 Analytical Results, Surface Water and Sugar Rock Spring Samples
4 Second and Third Quarter 2015 Performance Monitoring Analytical Data, Groundwater Migration Control System

Figures

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2 Second and Third Quarter 2015 TCE in Surface Water
3 Outcrop Survey, April 2015, Spring Sample Locations, TCE and DCE Results
4 Potentiometric Surface Contours, Shallow Water Table Zone, 6 May 2015
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6 Potentiometric Surface Contours, First Sand Zone, 6 May 2015
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8 Potentiometric Surface Contours, Second Sand Zone, 6 May 2015
9 Potentiometric Surface Contours, Second Sand Zone, 19 August 2015
10 Potentiometric Surface Contours, Top of Bedrock Zone, 5 May 2015
11 Potentiometric Surface Contours, Top of Bedrock Zone, 20 August 2015
12 Deep Bedrock Potentiometric Surface Contours, 17 April 2015
13 Deep Bedrock Potentiometric Surface Contours, 7 May 2015
14 Deep Bedrock Potentiometric Surface Contours, 2 June 2015
15 Deep Bedrock Potentiometric Surface Contours, 31 July 2015
16 Deep Bedrock Potentiometric Surface Contours, 20 August 2015
17 Deep Bedrock Potentiometric Surface Contours, 11 September 2015
18 Second Quarter 2015 TCE in Sugar Rock

Attachments

A Water Level Measurements
B Data Usability Summary Reports
C Groundwater Migration Control System Monthly Discharge Reports
D Groundwater Migration Control System Activity Log
E Groundwater Migration Control System Inspection Checklists
F Bedrock Groundwater Migration Control System Shutdown Reports
G Project Schedule

Tables

TABLE 1
2015-2016 GROUNDWATER SAMPLING / WATER LEVEL MEASUREMENTS
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Sampling

Location	Unit	Frequency	2Q-2015	3Q-2015	4Q-2015	1Q-2016
CSX-18D	SR	15 months				✓
MW-402D	SR	15 months				✓
MW-411D	SR	15 months				✓
MW-412D	SR	15 months				✓
MW-413D	SR	9 months	✓			✓
MW-416D	SR	9 months	✓			✓
MW-417D	SR	9 months	✓			✓
MW-418D	SR	9 months	✓			✓
MW-420M	MB	9 months	✓			✓
MW-420D	SR	9 months	✓			✓
MW-424D	SR	15 months				✓
MW-434D	SR	15 months				✓
MW-435D	SR	15 months				✓
MW-444D	SR	15 months				✓
MW-453D	SR	15 months				✓
MW-301S	TOR	15 months				✓
MW-415S	TOR	15 months				✓
MW-425S	TOR	9 months	✓			✓
MW-426S	TOR	15 months				✓
MW-445S	TOR	15 months				✓
MW-446S	TOR	15 months				✓
MW-784	WT	15 months				✓
MW-806	WT	9 months	✓			✓
MW-810	WT	9 months	✓			✓
MW-607	WT/S1	9 months	✓			✓
MW-729	WT/S1	15 months				✓
MW-734	WT/S1	15 months				✓
MW-775	WT/S1	9 months	✓			✓
MW-793	WT/S1	15 months				✓
MW-796	WT/S1	15 months				✓
MW-776	WT/S1	9 months	✓			✓
VPW-103	WT/S1	15 months				✓
MW-730	S1	9 months	✓			✓
MW-732	S1	9 months	✓			✓
MW-809	S1/S2	15 months				✓
MW-787	WT	15 months				✓
MW-715	S1	15 months				✓
Well A*	S1	9 months	✓			✓
MW-814	WT/S1	9 months	✓			✓
MW-815	WT/S1	9 months	✓			✓
MW-515	S2	15 months				✓
MW-605	S2	9 months	✓			✓
MW-717	S2	9 months	✓			✓
MW-725	S2	9 months	✓			✓
MW-731	S2	9 months	✓			✓
MW-740	S2	9 months	✓			✓
MW-741	S2	9 months	✓			✓
MW-742	S2	15 months				✓
MW-743	S2	9 months	✓			✓
MW-746	S2	15 months				✓
MW-759	S2	9 months	✓			✓
MW-800	S2	9 months	✓			✓
MW-807	S2	15 months				✓
SW-1	North Creek	Quarterly	✓	✓	✓	✓
SW-4	North Creek	Quarterly	✓	✓	✓	✓
B005	SR Spring	9 months	✓			✓
B006	SR Spring	9 months	✓			✓
C001	SR Spring	9 months	✓			✓
D001	SR Spring	9 months	✓			✓
E001	SR Spring	9 months	✓			✓
E002	SR Spring	9 months	✓			✓
F001	SR Spring	9 months	✓			✓
G004	SR Spring	9 months	✓			✓
G006	SR Spring	9 months	✓			✓

Water Level Measurements

Unit	Frequency
All SR / MB wells	Monthly
All TOR wells	Quarterly
All Overburden wells	Quarterly

Unit Key

Unit	Description
WT	Water Table
S1	First Sand
S2	Second Sand
TOR	Top Of Rock
MB	Middle Brassfield
SR	Sugar Rock

Notes:

1. * Denotes wells to be installed and their sampling schedule. Actual well nomenclature will be made after installation.

TABLE 2
SECOND & THIRD QUARTER 2015 ANALYTICAL RESULTS
OVERBURDEN AND BEDROCK MONITORING WELLS
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Location	MW-413D	MW-416D	MW-417D	MW-418D	MW-420D	MW-420M	MW-420M	MW-422S	MW-423S
Sample Date	05/18/2015	05/19/2015	05/20/2015	05/19/2015	05/19/2015	05/19/2015	05/19/2015	09/11/2015	09/11/2015
Location Group	SR	SR	SR	SR	SR	MB	MB	TOR	TOR
Sample Type	N	N	N	N	N	N	FD	N	N
Volatile Organic Compounds (ug/L)									
1,1-Dichloroethane	**100 J**	< 1	< 1	**0.34 J**	< 11	< 17	< 17	< 5000	< 1.43
2-Butanone (Methyl Ethyl Ketone)	< 2000	< 10	< 10	< 10	< 110	< 170	< 170	< 50000	< 14.3
Chloroform (Trichloromethane)	< 200	< 1	< 1	< 1	< 11	< 17	< 17	< 5000	< 1.43
cis-1,2-Dichloroethene	**2900**	**2.6**	**19**	**0.76 J**	**340**	**550**	**560**	**34400**	**11.3**
Toluene	< 200	< 1	< 1	< 1	< 11	< 17	< 17	< 5000	< 1.43
trans-1,2-Dichloroethene	< 200	< 1	< 1	< 1	< 11	**6.4 J**	**6.9 J**	< 5000	< 1.43
Trichloroethene	**7600**	< 1	< 1	< 1	**3.6 J**	**440**	**450**	**162000**	**23.1**
Trichlorofluoromethane (CFC-11)	< 200	< 1	< 1	< 1	< 11	< 17	< 17	< 5000	< 1.43
Vinyl chloride	< 200	**4.4**	**23**	**2**	**27**	**17**	**18**	< 5000	< 1.43

Notes and Abbreviations:
1. Summary includes VOC compounds detected in one or more samples.
2. Analysis method SW8260.
3. See Figure 1 for sample locations.
4. <: Result is below the indicated reporting limit.
   J: Estimated result.
5. Sample type codes: N - Normal, FD - Field Duplicate

TABLE 2
SECOND & THIRD QUARTER 2015 ANALYTICAL RESULTS
OVERBURDEN AND BEDROCK MONITORING WELLS
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Location	MW-424S	MW-425S	MW-425S	MW-428S	MW-605	MW-605	MW-607	MW-717	MW-725
Sample Date	09/10/2015	05/18/2015	09/10/2015	09/10/2015	05/20/2015	05/20/2015	05/13/2015	05/13/2015	05/18/2015
Location Group	TOR	TOR	TOR	TOR	S2	S2	WT/S1	S2	S2
Sample Type	N	N	N	N	N	FD	N	N	N
Volatile Organic Compounds (ug/L)									
1,1-Dichloroethane	< 5000	**14 J**	< 25	< 6250	< 1	< 1	< 1	< 1	< 1
2-Butanone (Methyl Ethyl Ketone)	< 50000	< 220	< 250	< 62500	< 10	< 10	< 10	< 10	< 10
Chloroform (Trichloromethane)	< 5000	< 22	< 25	< 6250	< 1	< 1	**2.8**	< 1	< 1
cis-1,2-Dichloroethene	**23000**	**320**	**342**	**14100**	**0.88 J**	**0.91 J**	**0.9 J**	< 1	< 1
Toluene	< 5000	< 22	< 25	< 6250	< 1	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	< 5000	< 22	< 25	< 6250	< 1	< 1	< 1	< 1	< 1
Trichloroethene	**101000**	**470**	**701**	**148000**	**1**	**0.92 J**	**13**	< 1	< 1
Trichlorofluoromethane (CFC-11)	< 5000	< 22	< 25	< 6250	< 1	< 1	**0.62 J**	< 1	< 1
Vinyl chloride	< 5000	< 22	< 25	< 6250	**4**	**4.1**	< 1	**2.5**	< 1

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TABLE 2
SECOND & THIRD QUARTER 2015 ANALYTICAL RESULTS
OVERBURDEN AND BEDROCK MONITORING WELLS
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Location	MW-730	MW-731	MW-732	MW-740	MW-740	MW-741	MW-743	MW-759	MW-775
Sample Date	05/12/2015	05/13/2015	05/20/2015	05/12/2015	05/12/2015	05/18/2015	05/18/2015	05/12/2015	05/12/2015
Location Group	S1	S2	S1	S2	S2	S2	S2	S2	WT
Sample Type	N	N	N	N	FD	N	N	N	N
Volatile Organic Compounds (ug/L)									
1,1-Dichloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (Methyl Ethyl Ketone)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloroform (Trichloromethane)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	**18**	< 1	< 1	< 1	< 1	< 1	< 1	**21**	< 1
Toluene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	**0.6 J**	< 1	< 1	< 1	< 1	< 1	< 1	**1.8**	< 1
Trichloroethene	**3.7**	< 1	< 1	< 1	< 1	< 1	< 1	**0.69 J**	< 1
Trichlorofluoromethane (CFC-11)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**27**	< 1

Notes and Abbreviations:
1. Summary includes VOC compounds detected in one or more samples.
2. Analysis method SW8260.
3. See Figure 1 for sample locations.
4. <: Result is below the indicated reporting limit.
   J: Estimated result.
5. Sample type codes: N - Normal, FD - Field Duplicate

TABLE 2
SECOND & THIRD QUARTER 2015 ANALYTICAL RESULTS
OVERBURDEN AND BEDROCK MONITORING WELLS
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Location	MW-776	MW-800	MW-806	MW-810	MW-814	MW-815
Sample Date	05/12/2015	05/18/2015	05/19/2015	05/13/2015	05/19/2015	05/19/2015
Location Group	WT/S1	S2	WT	WT	WT/S1	WT/S1
Sample Type	N	N	N	N	N	N
Volatile Organic Compounds (ug/L)						
1,1-Dichloroethane	< 1	< 1	**190 J**	< 1	< 1	< 1
2-Butanone (Methyl Ethyl Ketone)	**2.3 J**	< 10	< 2500	< 10	< 10	< 10
Chloroform (Trichloromethane)	< 1	**0.26 J**	< 250	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	**9100**	< 1	< 1	< 1
Toluene	**0.23 J**	< 1	< 250	< 1	< 1	< 1
trans-1,2-Dichloroethene	< 1	< 1	**220 J**	< 1	< 1	< 1
Trichloroethene	< 1	**0.25 J**	< 250	< 1	< 1	< 1
Trichlorofluoromethane (CFC-11)	< 1	< 1	< 250	< 1	< 1	< 1
Vinyl chloride	< 1	< 1	< 250	< 1	< 1	< 1

Notes and Abbreviations:
1. Summary includes VOC compounds detected in one or more samples.
2. Analysis method SW8260.
3. See Figure 1 for sample locations.
4. <: Result is below the indicated reporting limit.
   J: Estimated result.
5. Sample type codes: N - Normal, FD - Field Duplicate

TABLE 3
SECOND AND THIRD QUARTER 2015 ANALYTICAL RESULTS
SURFACE WATER AND SUGAR ROCK SPRING SAMPLES
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Location Group	North Creek				Spring						
Location	SW-1	SW-1	SW-4	SW-4	B005	B006	C001	D001	E001	E002	F001
Sample Date	05/20/2015	09/25/2015	05/20/2015	09/25/2015	04/15/2015	04/15/2015	04/15/2015	04/15/2015	04/15/2015	04/15/2015	04/15/2015
Sample Type	N	N	N	N	N	N	N	N	N	N	N
Volatile Organic Compounds (ug/L)											
1,1,1-Trichloroethane	< 1	< 1	**2.9**	< 1	< 1	< 1	< 5	< 3.3	< 2	< 1	< 1
1,1-Dichloroethane	< 1	< 1	**1 J**	< 1	< 1	< 1	< 5	< 3.3	< 2	< 1	< 1
Chloroform (Trichloromethane)	**0.26 J**	< 1	**0.68 J**	< 1	< 1	< 1	< 5	< 3.3	< 2	< 1	**6**
cis-1,2-Dichloroethene	**0.32 J**	< 1	**26**	**1.2**	**0.67 J**	**0.7 J**	**15**	**5.8**	**7.2**	< 1	< 1
trans-1,2-Dichloroethene	< 1	< 1	< 1.3	< 1	< 1	< 1	< 5	**1.5 J**	**0.8 J**	< 1	< 1
Trichloroethene	**0.45 J**	< 1	**37**	< 1	**3.7**	**4.3**	**66**	**78**	**39**	**0.3 J**	< 1
Vinyl chloride	< 1	< 1	**1.3**	< 1	< 1	< 1	< 5	< 3.3	< 2	< 1	< 1

Notes:
1. Summary includes compounds detected in one or more samples
2. Analysis methods SW8260.
3. See figures 2 and 3 for sample locations.
4. <: Result is below the indicated reporting limit.
   J: Estimated result.
5. Sample type codes: N - Normal

TABLE 3
SECOND AND THIRD QUARTER 2015 ANALYTICAL RESULTS
SURFACE WATER AND SUGAR ROCK SPRING SAMPLES
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Location Group	Spring	
Location	G004	G006
Sample Date	04/15/2015	04/15/2015
Sample Type	N	N
Volatile Organic Compounds (ug/L)		
1,1,1-Trichloroethane	< 1	< 1
1,1-Dichloroethane	< 1	< 1
Chloroform (Trichloromethane)	< 1	**0.4 J**
cis-1,2-Dichloroethene	< 1	**0.97 J**
trans-1,2-Dichloroethene	< 1	< 1
Trichloroethene	< 1	**1.8**
Vinyl chloride	< 1	< 1

Notes:
1. Summary includes compounds detected in one or more samples
2. Analysis methods SW8260.
3. See figures 2 and 3 for sample locations.
4. <: Result is below the indicated reporting limit.
   J: Estimated result.
5. Sample type codes: N - Normal

TABLE 4
SECOND & THIRD QUARTER 2015
PERFORMANCE MONITORING ANALYTICAL DATA
GROUNDWATER MIGRATION CONTROL SYSTEM
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Compound	BRIN-040215 4/2/2015 Sugar Rock Recovery Well	OBIN-040215 4/2/2015 Overburden Recovery Well	SSIN-040215 4/2/2015 Second Sand Recovery Well	PREAS-040215 4/2/2015 Pre Air Stripper	PRECAR-040215 4/2/2015 Pre Carbon Vessels	EFF-040215 4/2/2015 Effluent
VOLATILE ORGANICS - µg/L **METHOD: EPA 624**						
1,1-Dichloroethane	< 50.0	< 200	**208**	< 100	< 1.00	< 1.00
1,1,1-Trichloroethane	< 50.0	**201**	< 200	**152**	< 1.00	< 1.00
Trichloroethene	**1700**	**7560**	**12800**	**7050**	< 1.00	< 1.00
cis-1,2-Dichloroethene	**689**	**640**	**2650**	**1030**	< 1.00	< 1.00
pH (Lab) - S.U. (standard units) **METHOD: EPA 150.1**				**7.39**		**8.45**

Notes and Abbreviations:
NA: Not Analyzed
< #: The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

TABLE 4
SECOND & THIRD QUARTER 2015
PERFORMANCE MONITORING ANALYTICAL DATA
GROUNDWATER MIGRATION CONTROL SYSTEM
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Compound	BRIN-050515 5/5/2015 Sugar Rock Recovery Well	OBIN-050515 5/5/2015 Overburden Recovery Well	SSIN-050515 5/5/2015 Second Sand Recovery Well	PREAS-050515 5/5/2015 Pre Air Stripper	PRECAR-050515 5/5/2015 Pre Carbon Vessels	EFF-050515 5/5/2015 Effluent
VOLATILE ORGANICS - µg/L **METHOD: EPA 624**						
1,1-Dichloroethane	< 50.0	< 100	< 200	< 50.0	< 1.00	< 1.00
1,1,1-Trichloroethane	< 50.0	**119**	< 200	< 50.0	< 1.00	< 1.00
Trichloroethene	**2680**	**3800**	**11900**	**3860**	< 1.00	< 1.00
cis-1,2-Dichloroethene	**825**	**312**	**2180**	**745**	< 1.00	< 1.00
pH (Lab) - S.U. (standard units) **METHOD: EPA 150.1**				**7.25**		**8.41**

Notes and Abbreviations:
NA: Not Analyzed
< #: The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

TABLE 4
SECOND & THIRD QUARTER 2015
PERFORMANCE MONITORING ANALYTICAL DATA
GROUNDWATER MIGRATION CONTROL SYSTEM
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Compound	BRIN-060315 6/3/2015 Sugar Rock Recovery Well	OBIN-060315 6/3/2015 Overburden Recovery Well	SSIN-060315 6/3/2015 Second Sand Recovery Well	PREAS-060315 6/3/2015 Pre Air Stripper	PRECAR-060315 6/3/2015 Pre Carbon Vessels	EFF-060315 6/3/2015 Effluent
VOLATILE ORGANICS - µg/L **METHOD: EPA 624**						
1,1-Dichloroethane	< 50.0	< 100	**204**	< 50.0	< 1.00	< 1.00
1,1,1-Trichloroethane	< 50.0	< 100	< 200	< 50.0	< 1.00	< 1.00
Trichloroethene	**3380**	**3030**	**12000**	**3590**	**1.03**	< 1.00
cis-1,2-Dichloroethene	**1030**	**322**	**2400**	**886**	< 1.00	< 1.00
pH (Lab) - S.U. (standard units) **METHOD: EPA 150.1**				**7.20**		**8.36**

Notes and Abbreviations:
NA: Not Analyzed
< #: The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

TABLE 4
SECOND & THIRD QUARTER 2015
PERFORMANCE MONITORING ANALYTICAL DATA
GROUNDWATER MIGRATION CONTROL SYSTEM
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Compound	BRIN-070915 7/9/2015 Sugar Rock Recovery Well	OBIN-070915 7/9/2015 Overburden Recovery Well	SSIN-070915 7/9/2015 Second Sand Recovery Well	PREAS-070915 7/9/2015 Pre Air Stripper	PRECAR-070915 7/9/2015 Pre Carbon Vessels	EFF-070915 7/9/2015 Effluent
VOLATILE ORGANICS - µg/L **METHOD: EPA 624**						
1,1-Dichloroethane	< 50.0	< 125	< 250	< 100	< 1.00	< 1.00
1,1,1-Trichloroethane	< 50.0	**139**	< 250	< 100	< 1.00	< 1.00
Trichloroethene	**2360**	**3890**	**11800**	**4010**	< 1.00	< 1.00
cis-1,2-Dichloroethene	**716**	**371**	**2280**	**777**	< 1.00	< 1.00
pH (Lab) - S.U. (standard units) **METHOD: EPA 150.1**				**7.22**		**8.42**

Notes and Abbreviations:
NA: Not Analyzed
< #: The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

TABLE 4
SECOND & THIRD QUARTER 2015
PERFORMANCE MONITORING ANALYTICAL DATA
GROUNDWATER MIGRATION CONTROL SYSTEM
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Compound	BRIN-080315 8/3/2015 Sugar Rock Recovery Well	OBIN-080315 8/3/2015 Overburden Recovery Well	SSIN-080315 8/3/2015 Second Sand Recovery Well	PREAIS-080315 8/3/2015 Pre Air Stripper	PRECAR-080315 8/3/2015 Pre Carbon Vessels	EFF-080315 8/3/2015 Effluent
VOLATILE ORGANICS - µg/L **METHOD: EPA 624**						
1,1-Dichloroethane	< 20.0	< 50.0	< 200	< 100	< 1.00	< 1.00
1,1,1-Trichloroethane	< 20.0	**116**	< 200	< 100	< 1.00	< 1.00
Trichloroethene	**685**	**3060**	**5430**	**2080**	< 1.00	< 1.00
cis-1,2-Dichloroethene	**370**	**285**	**1130**	**476**	< 1.00	< 1.00
pH (Lab) - S.U. (standard units) **METHOD: EPA 150.1**				**7.17**		**8.38**

Notes and Abbreviations:
NA: Not Analyzed
< #: The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

TABLE 4
SECOND & THIRD QUARTER 2015
PERFORMANCE MONITORING ANALYTICAL DATA
GROUNDWATER MIGRATION CONTROL SYSTEM
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Compound	BRIN-090915 9/9/2015 Sugar Rock Recovery Well	OBIN-090915 9/9/2015 Overburden Recovery Well	SSIN-090915 9/9/2015 Second Sand Recovery Well	PREASE-090915 9/9/2015 Pre Air Stripper	PRECAR-090915 9/9/2015 Pre Carbon Vessels	EFF-090915 9/9/2015 Effluent
VOLATILE ORGANICS - µg/L **METHOD: EPA 624**						
1,1-Dichloroethane	< 50.0	< 50.0	< 200	< 100	< 1.00	< 1.00
1,1,1-Trichloroethane	< 50.0	< 50.0	< 200	< 100	< 1.00	< 1.00
Trichloroethene	**2760**	**1520**	**10400**	**2990**	< 1.00	< 1.00
cis-1,2-Dichloroethene	**964**	**194**	**2300**	**864**	< 1.00	< 1.00
pH (Lab) - S.U. (standard units) **METHOD: EPA 150.1**				**7.44**		**8.48**

Notes and Abbreviations:
NA: Not Analyzed
< #: The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

Figures

LEGEND

- WELL SAMPLED IN Q2
- *WELL SAMPLED IN Q3 AS PART OF TOP OF ROCK INVESTIGATION
- ROAD
- APPROXIMATE FACILITY BOUNDARY
- BUILDING

N

0 1,000 2,000

SCALE IN FEET

HALEY ALDRICH

MAHLE BEHR DAYTON LLC
VANDALIA, OHIO

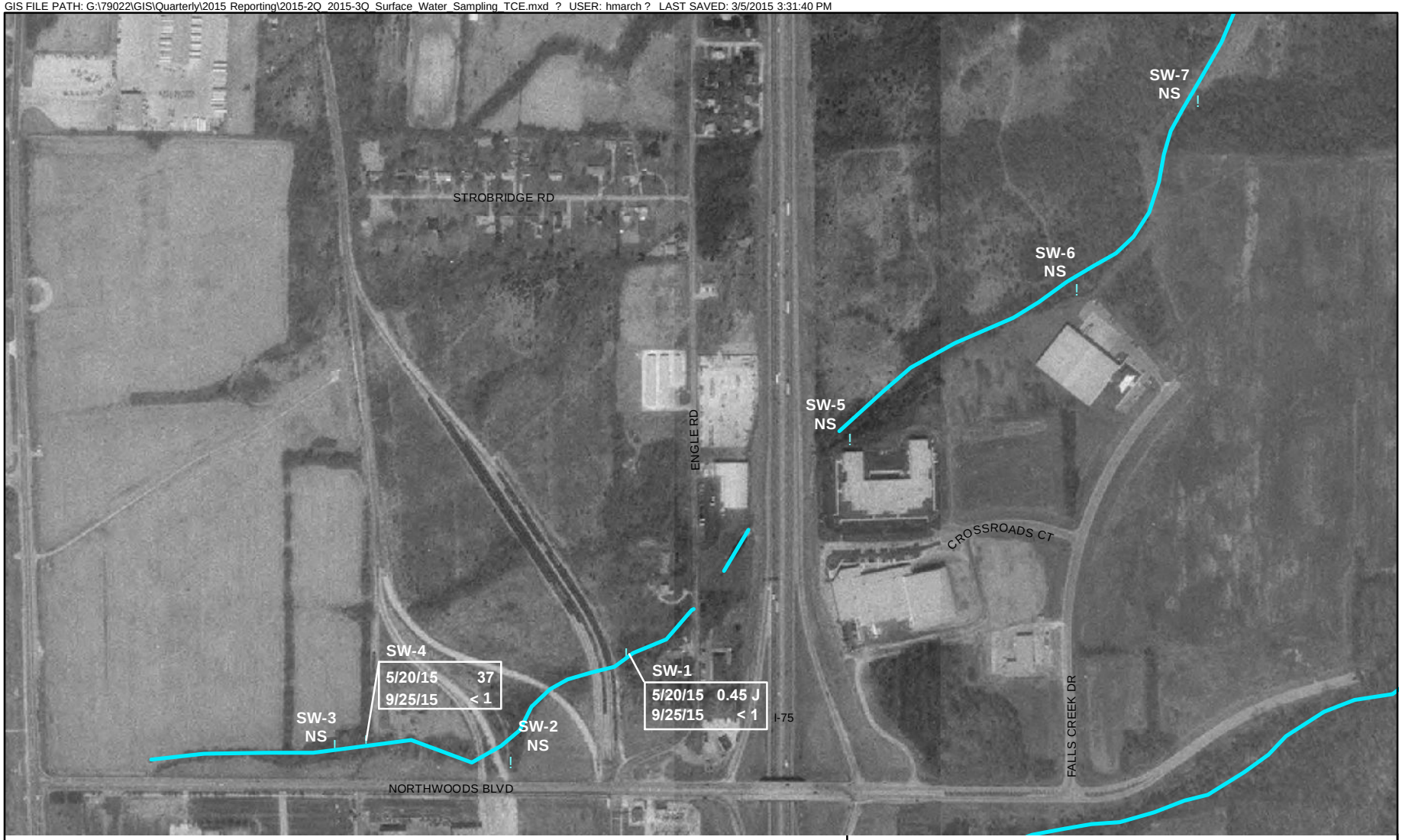
SECOND AND THIRD QUARTER 2015 WELLS SAMPLED

OCTOBER 2015

FIGURE 1

GIS FILE PATH: G:\79022\2015-2Q_Wells_Sampled.mxd — USER: amclure — LAST SAVED: 10/8/2015 5:04:31 PM

GIS FILE PATH: G:\79022\GIS\Quarterly\2015 Reporting\2015-2Q_2015-3Q_Surface_Water_Sampling_TCE.mxd ? USER: hmarch ? LAST SAVED: 3/5/2015 3:31:40 PM



LEGEND

- APPROXIMATE FACILITY BOUNDARY
- APPROXIMATE LOCATION OF THE UNNAMED TRIBUTARY OF NORTH CREEK
- SW-1 25 — APPROXIMATE SAMPLE LOCATION WITH TCE RESULT IN ug/l
- NS — NOT SAMPLED

N

0 300 600
SCALE IN FEET

HALEY ALDRICH

MAHLE BEHR DAYTON LLC
VANDALIA, OHIO

SECOND AND THIRD QUARTER 2015 SURFACE WATER SAMPLING LOCATIONS AND TCE RESULTS

SCALE: AS SHOWN
OCTOBER 2015

FIGURE 2

BO01 SPRING
NS

BO02 SPRING
NS

BO03 SPRING
NS

BO04 SPRING
NS

BO06 SPRING
TCE 4.3
cis-DCE 0.7 J

BO05 SPRING
TCE 3.7
cis-DCE 0.67 J

CO01 SPRING
TCE 66
cis-DCE 15

DO01 SPRING
TCE 78
cis-DCE 5.8

EO01 SPRING
TCE 39
cis-DCE 7.2

EO02 SPRING
TCE 0.3 J
cis-DCE < 1

EO04 SPRING
NS

FO01 SPRING
TCE < 1
cis-DCE < 1

GO04 SPRING
TCE < 1
cis-DCE < 1

GO05 SPRING
NS

GO03 SPRING
NS

GO06 SPRING
TCE 1.8
cis-DCE 0.97 J

GO02 SPRING
NS

GO01 SPRING
NS

SEC. 2
T3 R6 E

SEC. 11
T3 R6 E

SEC. 14
T3 R6 E

D&M R.R. AND C&T R.R.

CASSEL RD

MIAMI CO BETHEL TWP

GREAT MIAMI RIVER

BETHEL TWP
MIAMI CO

HUBER HEIGHTS
CORP LIMITS

VANDALIA CORP LIMIT

KROGER CENTER

DEMMIT ELEMENTARY SCHOOL

CITY GARAGE

CASSEL HILLS SWIMMING POOL

CASSEL HILLS MUNICIPAL GOLF COURSE

HALIFAX DR.
LONDONDERRY DR.
DEERVALE CT.
WHITEHORN DR.
MOUNTAIN DR.
HARTSHORN DR.
BRISTOL DR.
BLUCHER CT.
VAN ARDEN DR.
SUNDERLAND DR.
E. NATIONAL RD.
CLUBHOUSE WAY
OLDE FALLS DR.
SETTLERS TRAIL
WEST VANLAKE DR.
EAST VANLAKE DR.
TAYLORSVIEW DR.
ROYALTON DR.
ROBINETTE AVE.
GLENROSE ST.
SCENIC CT.
WOLLENHAUPT DR.
BRINDLESTONE DR.
MISTIC LN.
CASSEL CREEK DR.

LEGEND

- APPROXIMATE LOCATIONS OF KNOWN SPRINGS & POOLS
- INFERRED BRASSFIELD-BELFAST OUTCROP CONTACT
- RAILROAD
- ROADWAYS
- SURFACE WATER
- NORTHERN SEGMENT OF THE GREAT MIAMI RIVER RECREATION TRAIL
- PARCEL BOUNDARY

NOTES:

1. AERIAL PHOTOGRAPH AND SURFACE FEATURES PROVIDED BY ODOT.
2. PARCEL BOUNDARIES AND ROADWAYS PROVIDED BY THE CITY OF VANDALIA.
3. LOCATIONS ARE APPROXIMATE.
4. NS - NOT SAMPLED
5. RESULTS ARE IN UG/L.
6. SPRING LOCATIONS E001, E002, AND F001 WERE DRY AT THE TIME OF SAMPLING.

N

0 400 800

SCALE FOR DETAIL IN FEET

HALEY ALDRICH

MAHLE BEHR DAYTON LLC
VANDALIA, OHIO

OUTCROP SURVEY APRIL 2015
SPRING SAMPLE LOCATIONS
TCE & DCE RESULTS

SCALE: AS SHOWN
OCTOBER 2015

FIGURE 3

G:\79022\GIS\Quarterly\2014 Reporting\2014-3Q_TCE_SR_Spring.mxd

MARCH, HEATHER Printed: 10/5/2015 10:51 AM Layout: HA-FIG-D-L
G:\79022\WATER LEVELS\OVERBURDEN WLS\178- MAY 2015\2015-0506_WT.DWG

LEGEND

980 — POTENTIOMETRIC SURFACE CONTOUR WITH ELEVATION IN FEET

MW-771 — MONITORING WELL SCREENED IN THE SHALLOW WATER TABLE ZONE

MW-771 N/A — MOITORING WELL NOT ACCESSIBLE AT TIME OF MEASUREMENT

STORM SEWER SYSTEM

972.0 — STORM SEWER INVERT ELEVATION

UNNAMED TRIBUTARY OF NORTH CREEK

TUNNELS AND BASEMENTS

NOTES

1. WATER LEVELS FROM MONITORING WELLS, PIEZOMETERS, OR OTHER SOURCES USED FOR THIS PLAN WERE OBSERVED ON THE DATE INDICATED.
2. INDICATED LEVELS MAY NOT REFLECT THE ACTUAL GROUNDWATER OR POTENTIOMETRIC LEVELS. FLUCTUATIONS IN GROUNDWATER LEVELS CAN OCCUR DUE TO CLIMATIC CHANGES, AREA PUMPING ACTIVITY, AND OTHER REASONS.
3. POTENTIOMETRIC CONTOUR LINES ARE BASED UPON INTERPOLATION BETWEEN OBSERVATION POINTS AND MAY NOT ACCURATELY DEPICT THE POTENTIOMETRIC SURFACE AT ALL LOCATIONS OR TIMES.
4. WELLS THAT COULD NOT BE ACCESSED ON 6 MAY 2015 AND WELLS WITH PRODUCT ARE LISTED IN APPENDIX A.

N

0 100 200 300 400
SCALE IN FEET

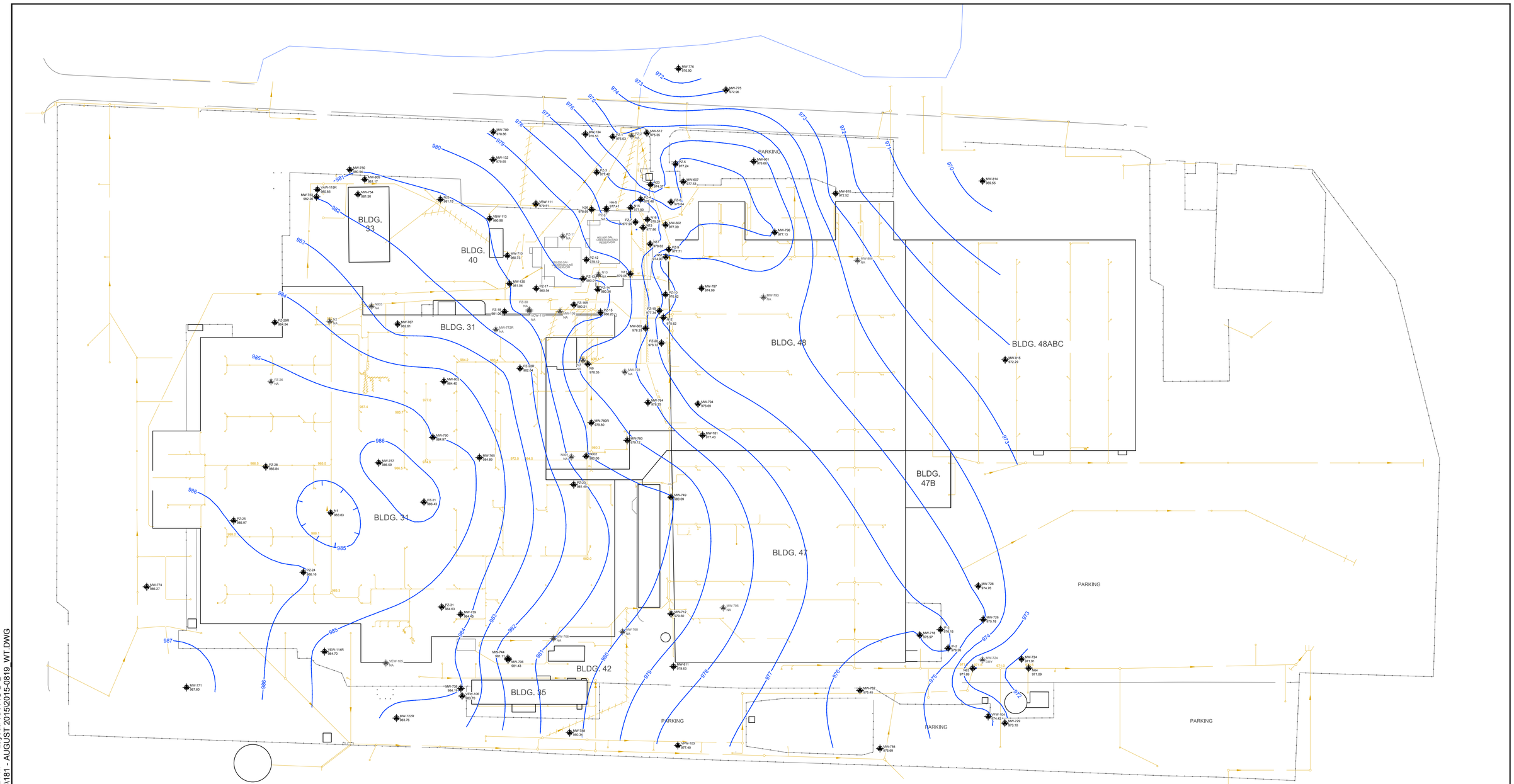
HALEY ALDRICH

MAHLE BEHR DAYTON LLC
VANDALIA, OHIO

POTENTIOMETRIC SURFACE CONTOURS - SHALLOW WATER TABLE ZONE - 6 MAY 2015

SCALE: AS SHOWN
OCTOBER 2015

FIGURE 4



LEGEND

- 980 — POTENTIOMETRIC SURFACE CONTOUR WITH ELEVATION IN FEET
- MW-771 — MONITORING WELL SCREENED IN THE SHALLOW WATER TABLE ZONE
- MW-771 N/A — MOITORING WELL NOT ACCESSIBLE AT TIME OF MEASUREMENT
- STORM SEWER SYSTEM
- 972.0 — STORM SEWER INVERT ELEVATION
- UNNAMED TRIBUTARY OF NORTH CREEK
- TUNNELS AND BASEMENTS

NOTES

1. WATER LEVELS FROM MONITORING WELLS, PIEZOMETERS, OR OTHER SOURCES USED FOR THIS PLAN WERE OBSERVED ON THE DATE INDICATED.
2. INDICATED LEVELS MAY NOT REFLECT THE ACTUAL GROUNDWATER OR POTENTIOMETRIC LEVELS. FLUCTUATIONS IN GROUNDWATER LEVELS CAN OCCUR DUE TO CLIMATIC CHANGES, AREA PUMPING ACTIVITY, AND OTHER REASONS.
3. POTENTIOMETRIC CONTOUR LINES ARE BASED UPON INTERPOLATION BETWEEN OBSERVATION POINTS AND MAY NOT ACCURATELY DEPICT THE POTENTIOMETRIC SURFACE AT ALL LOCATIONS OR TIMES.
4. WELLS THAT COULD NOT BE ACCESSED ON 19 AUGUST 2015 AND WELLS WITH PRODUCT ARE LISTED IN APPENDIX A.

N

0 100 200 300 400

SCALE IN FEET

HALEY ALDRICH

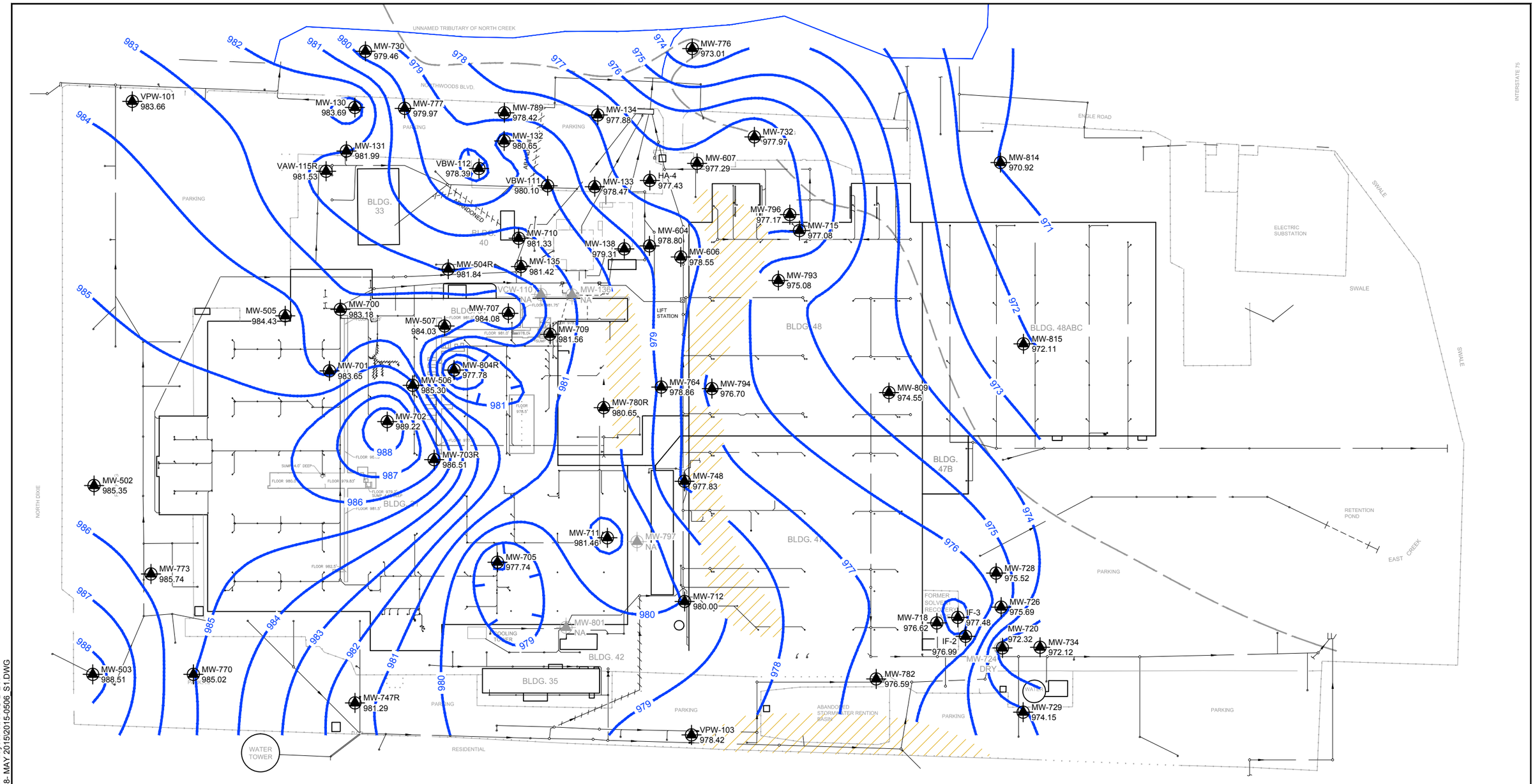
MAHLE BEHR DAYTON LLC
VANDALIA, OHIO

POTENTIOMETRIC SURFACE CONTOURS - SHALLOW WATER TABLE ZONE - 19 AUGUST 2015

SCALE: AS SHOWN
OCTOBER 2015

FIGURE 5

MARCH, HEATHER Printed: 10/5/2015 2:22 PM Layout: HA-FIG-P-L
G:\79022\WATER LEVELS\OVERBURDEN WLS\181 - AUGUST 2015\2015-0819_WT.DWG



LEGEND

MW-770 984.34	MONITORING WELL SCREENED IN THE FIRST SAND WITH GROUNDWATER ELEVATION
980	POTENTIOMETRIC SURFACE CONTOUR WITH ELEVATION IN FEET
	AREA DETERMINED AS NOT HAVING THE FIRST SAND UNIT (FIRST SAND UNIT MAY NOT BE PRESENT IN OTHER UNDETERMINED AREAS)
	AREA DETERMINED AS HAVING THE FIRST SAND UNIT REPLACED BY FILL DURING SEWER CONSTRUCTION
	UNNAMED TRIBUTARY OF NORTH CREEK
	APPROXIMATE LOCATION OF INTERPRETED FIRST SAND MERGE WITH SECOND SAND

NOTES

1. WATER LEVELS FROM MONITORING WELLS, PIEZOMETERS OR OTHER SOURCES USED FOR THIS PLAN WERE OBSERVED ON THE DATE INDICATED.
2. INDICATED LEVELS MAY NOT REFLECT THE ACTUAL GROUNDWATER OR POTENTIOMETRIC LEVELS. FLUCTUATIONS IN GROUNDWATER LEVELS CAN OCCUR DUE TO CLIMATIC CHANGES, AREA PUMPING ACTIVITY AND OTHER REASONS.
3. POTENTIOMETRIC CONTOUR LINES ARE BASED UPON INTERPOLATION BETWEEN OBSERVATION POINTS AND MAY NOT ACCURATELY DEPICT THE POTENTIOMETRIC SURFACE AT ALL LOCATIONS OR TIMES.
4. WELLS THAT COULD NOT BE ACCESSED ON 6 MAY 2015 AND WELLS WITH PRODUCT ARE LISTED IN APPENDIX A.

N

0 200 400

SCALE IN FEET

HALEY ALDRICH

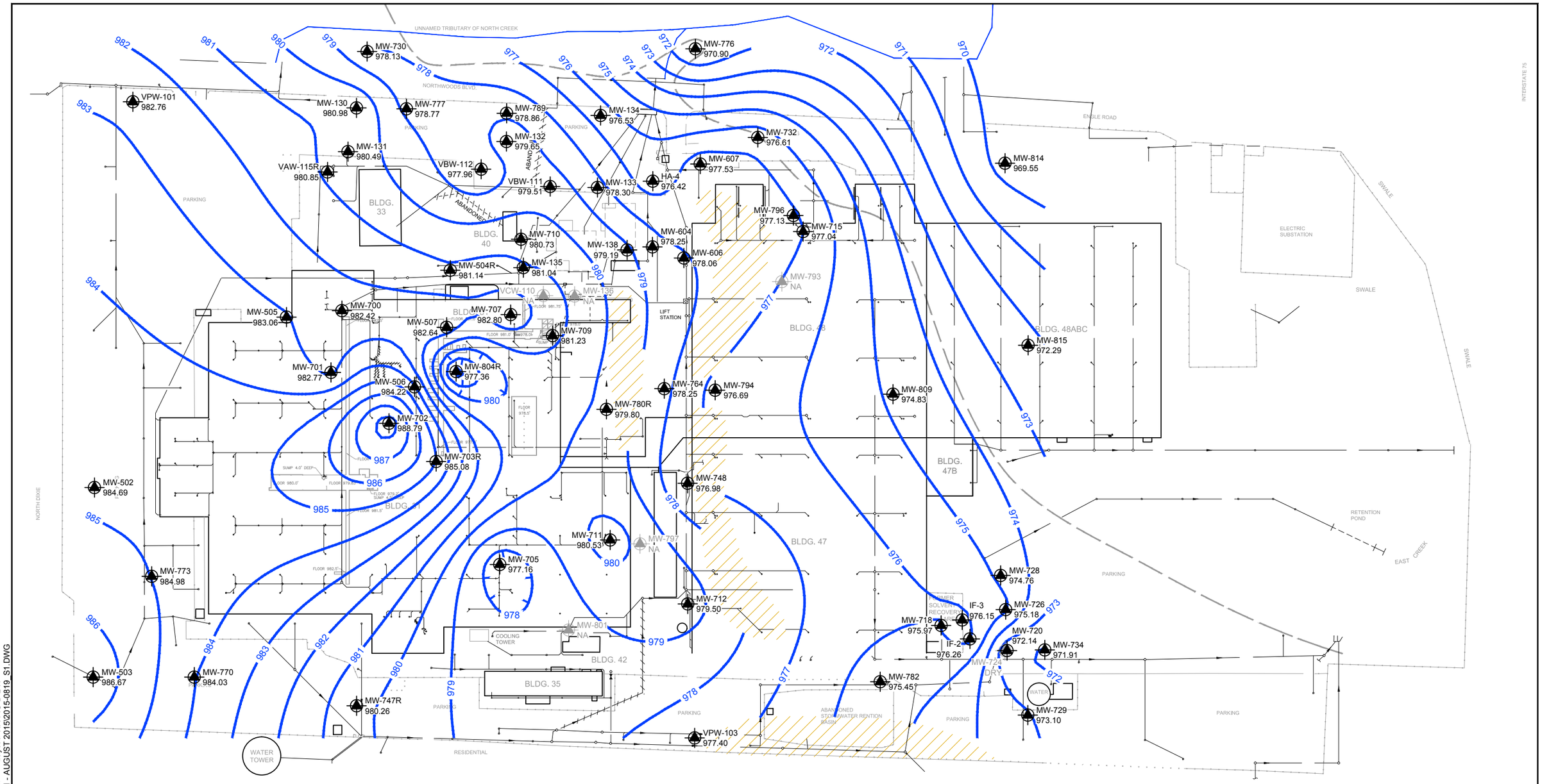
MAHLE BEHR DAYTON LLC
VANDALIA, OHIO

POTENTIOMETRIC SURFACE CONTOURS - 6 MAY 2015 FIRST SAND ZONE

SCALE: AS SHOWN
OCTOBER 2015

FIGURE 6

MARCH, HEATHER Printed: 10/2/2015 4:27 PM Layout: HA-FIG-B-L-H
G:\79022\WATER LEVELS\OVERBURDEN WLS\178- MAY 2015\2015-0506_S1.DWG



LEGEND

- MW-770 984.34 — MONITORING WELL SCREENED IN THE FIRST SAND WITH GROUNDWATER ELEVATION
- 980 — POTENTIOMETRIC SURFACE CONTOUR WITH ELEVATION IN FEET
- AREA DETERMINED AS NOT HAVING THE FIRST SAND UNIT (FIRST SAND UNIT MAY NOT BE PRESENT IN OTHER UNDETERMINED AREAS)
- AREA DETERMINED AS HAVING THE FIRST SAND UNIT REPLACED BY FILL DURING SEWER CONSTRUCTION
- UNNAMED TRIBUTARY OF NORTH CREEK
- APPROXIMATE LOCATION OF INTERPRETED FIRST SAND MERGE WITH SECOND SAND

NOTES

1. WATER LEVELS FROM MONITORING WELLS, PIEZOMETERS OR OTHER SOURCES USED FOR THIS PLAN WERE OBSERVED ON THE DATE INDICATED.
2. INDICATED LEVELS MAY NOT REFLECT THE ACTUAL GROUNDWATER OR POTENTIOMETRIC LEVELS. FLUCTUATIONS IN GROUNDWATER LEVELS CAN OCCUR DUE TO CLIMATIC CHANGES, AREA PUMPING ACTIVITY AND OTHER REASONS.
3. POTENTIOMETRIC CONTOUR LINES ARE BASED UPON INTERPOLATION BETWEEN OBSERVATION POINTS AND MAY NOT ACCURATELY DEPICT THE POTENTIOMETRIC SURFACE AT ALL LOCATIONS OR TIMES.
4. WELLS THAT COULD NOT BE ACCESSED ON 19 AUGUST 2015 AND WELLS WITH PRODUCT ARE LISTED IN APPENDIX A.

N

0 200 400
SCALE IN FEET

HALEY ALDRICH

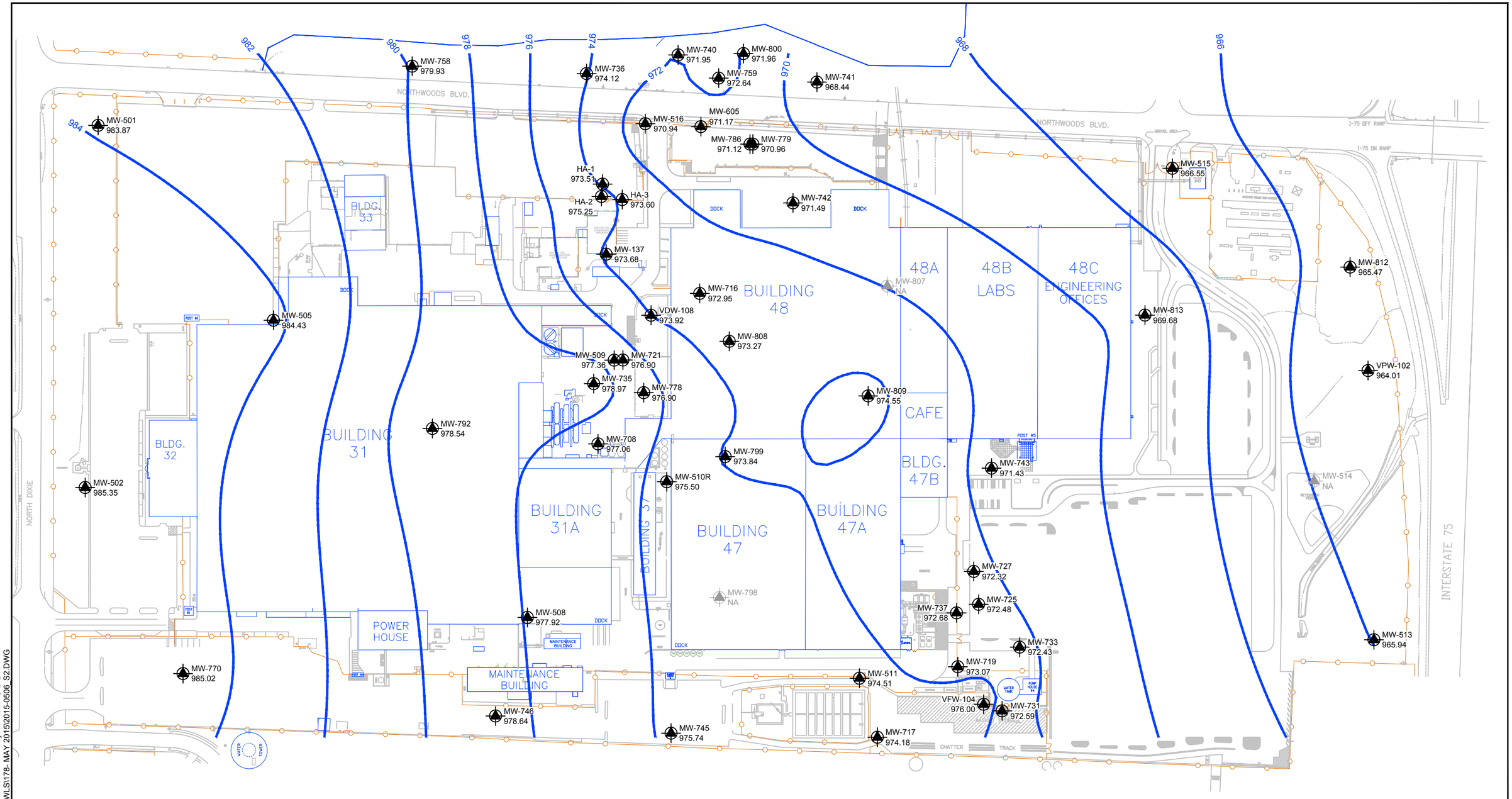
MAHLE BEHR DAYTON LLC
VANDALIA, OHIO

POTENTIOMETRIC SURFACE CONTOURS - 19 AUGUST 2015 FIRST SAND ZONE

SCALE: AS SHOWN
OCTOBER 2015

FIGURE 7

MARCH, HEATHER Printed:10/5/2015 1:25 PM Layout: HA-FIG-B-L-H
G:\79022\WATER LEVELS\OVERBURDEN WLS\181 - AUGUST 2015\2015-0819_S1.DWG



LEGEND

- MW701 981.30 — MONITORING WELL OR PIEZOMETER WITH GROUNDWATER ELEVATION
- 980 — POTENTIOMETRIC SURFACE CONTOUR WITH ELEVATION IN FEET
- UNNAMED TRIBUTARY OF NORTH CREEK
- NA — MONITORING WELL NOT ACCESSIBLE DUE TO ACCESS RESTRICTIONS

NOTES

1. WATER LEVELS FROM MONITORING WELLS, PIEZOMETERS OR OTHER SOURCES USED FOR THIS PLAN WERE OBSERVED ON THE DATE INDICATED.
2. INDICATED LEVELS MAY NOT REFLECT THE ACTUAL GROUNDWATER OR POTENTIOMETRIC LEVELS. FLUCTUATIONS IN GROUNDWATER LEVELS CAN OCCUR DUE TO CLIMATIC CHANGES, AREA PUMPING AND OTHER REASONS.
3. POTENTIOMETRIC CONTOUR LINES ARE BASED UPON INTERPOLATION BETWEEN OBSERVED POINTS AND MAY NOT ACCURATELY DEPICT THE POTENTIOMETRIC SURFACE AT ALL LOCATIONS OR TIMES.
4. WELLS THAT COULD NOT BE ACCESSED ON 6 MAY 2015 AND WELLS WITH PRODUCT ARE LISTED IN APPENDIX A.

N

0 200 400
SCALE IN FEET

HALEY ALDRICH

MAHLE BEHR DAYTON LLC
VANDALIA, OHIO

POTENTIOMETRIC SURFACE CONTOURS - 6 MAY 2015 SECOND SAND ZONE

SCALE: AS SHOWN
OCTOBER 2015

FIGURE 8

MARCH, HEATHER Printed:10/2/2015 4:23 PM Layout: HA-FIG-B-I-H
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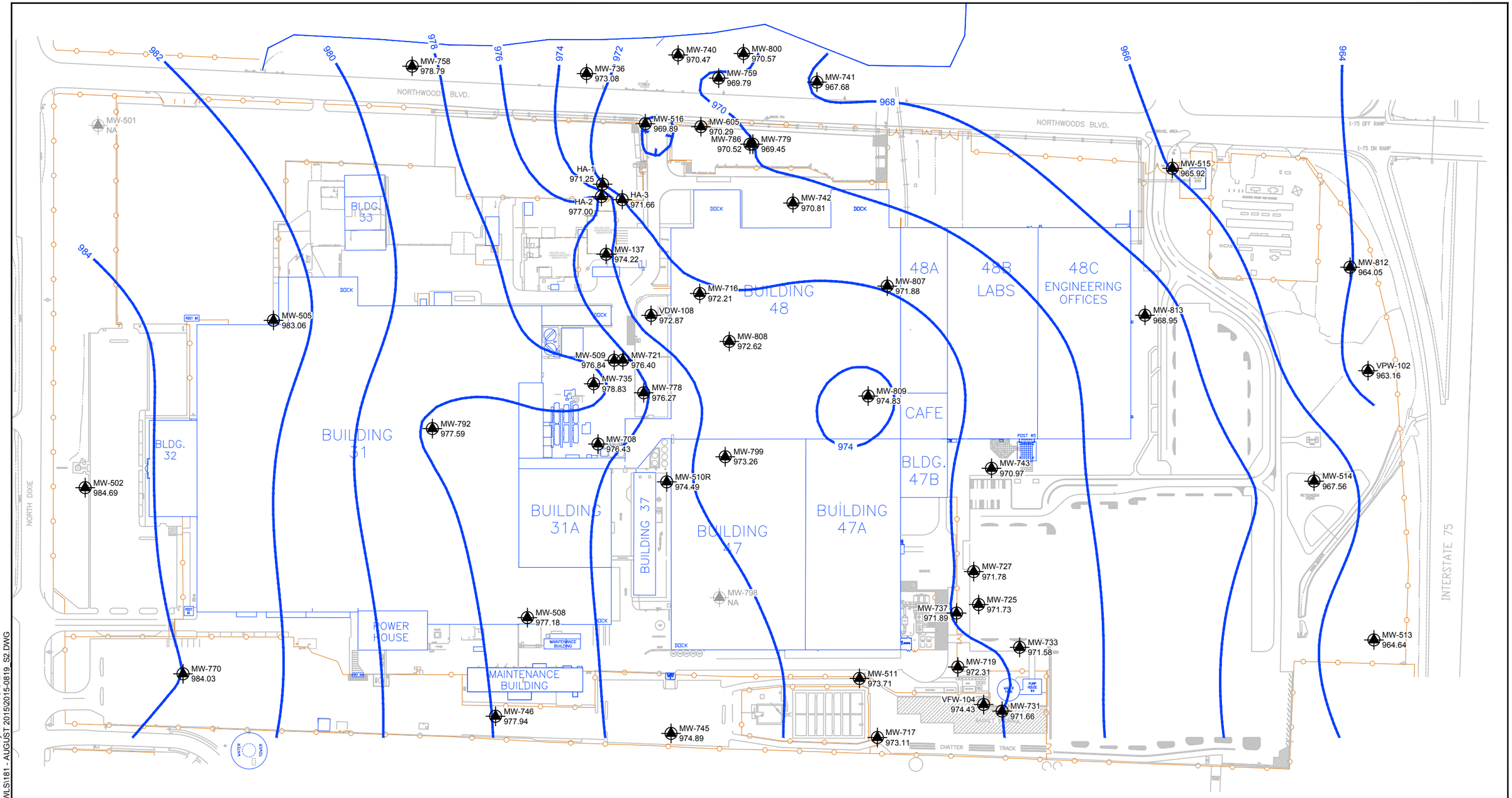


LEGEND

MW701 981.30	MONITORING WELL OR PIEZOMETER WITH GROUNDWATER ELEVATION
980	POTENTIOMETRIC SURFACE CONTOUR WITH ELEVATION IN FEET
	UNNAMED TRIBUTARY OF NORTH CREEK
NA	MONITORING WELL NOT ACCESSIBLE DUE TO ACCESS RESTRICTIONS

NOTES

1. WATER LEVELS FROM MONITORING WELLS, PIEZOMETERS OR OTHER SOURCES USED FOR THIS PLAN WERE OBSERVED ON THE DATE INDICATED.
2. INDICATED LEVELS MAY NOT REFLECT THE ACTUAL GROUNDWATER OR POTENTIOMETRIC LEVELS. FLUCTUATIONS IN GROUNDWATER LEVELS CAN OCCUR DUE TO CLIMATIC CHANGES, AREA PUMPING AND OTHER REASONS.
3. POTENTIOMETRIC CONTOUR LINES ARE BASED UPON INTERPOLATION BETWEEN OBSERVED POINTS AND MAY NOT ACCURATELY DEPICT THE POTENTIOMETRIC SURFACE AT ALL LOCATIONS OR TIMES.
4. WELLS THAT COULD NOT BE ACCESSED ON 19 AUGUST 2015 AND WELLS WITH PRODUCT ARE LISTED IN APPENDIX A.

N

0 200 400
SCALE IN FEET

HALEY ALDRICH

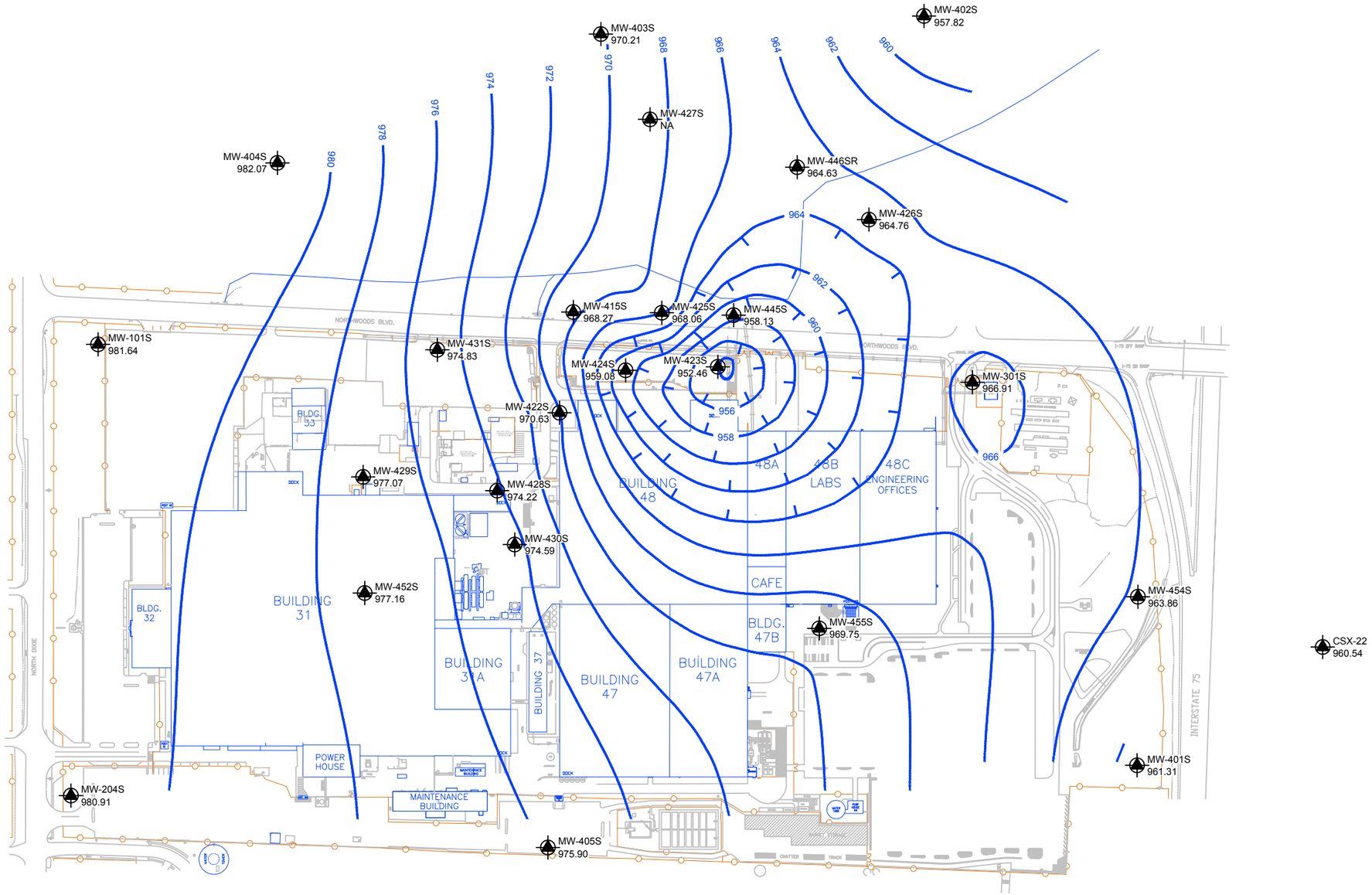
MAHLE BEHR DAYTON LLC
VANDALIA, OHIO

POTENTIOMETRIC SURFACE CONTOURS - 19 AUGUST 2015 SECOND SAND ZONE

SCALE: AS SHOWN
OCTOBER 2015

FIGURE 9

MARCH, HEATHER Printed:10/5/2015 1:18 PM Layout: HA-FIG-B-L-H
G:\79022\WATER LEVELS\OVERBURDEN WLS\181 - AUGUST 2015\2015-08-19_S2.DWG



LEGEND

MW-204S 979.24	MONITORING WELL OR PIEZOMETER WITH GROUNDWATER ELEVATION
980	POTENTIOMETRIC SURFACE CONTOUR WITH ELEVATION IN FEET
	UNNAMED TRIBUTARY OF NORTH CREEK
NA	MONITORING WELL NOT ACCESSIBLE DUE TO ACCESS RESTRICTIONS

NOTES

1. WATER LEVELS FROM MONITORING WELLS, PIEZOMETERS OR OTHER SOURCES USED FOR THIS PLAN WERE OBSERVED ON THE DATE INDICATED.
2. INDICATED LEVELS MAY NOT REFLECT THE ACTUAL GROUNDWATER OR POTENTIOMETRIC LEVELS. FLUCTUATIONS IN GROUNDWATER LEVELS CAN OCCUR DUE TO CLIMATIC CHANGES, AREA PUMPING ACTIVITY AND OTHER REASONS.
3. POTENTIOMETRIC CONTOUR LINES ARE BASED UPON INTERPOLATION BETWEEN OBSERVATION POINTS AND MAY NOT ACCURATELY DEPICT THE POTENTIOMETRIC SURFACE AT ALL LOCATIONS OR TIMES.
4. MW-427S WAS NOT GAUGED AND THEREFORE EXCLUDED FROM THE POTENTIOMETRIC SURFACE.

N

0 300 600

SCALE IN FEET

HALEY ALDRICH

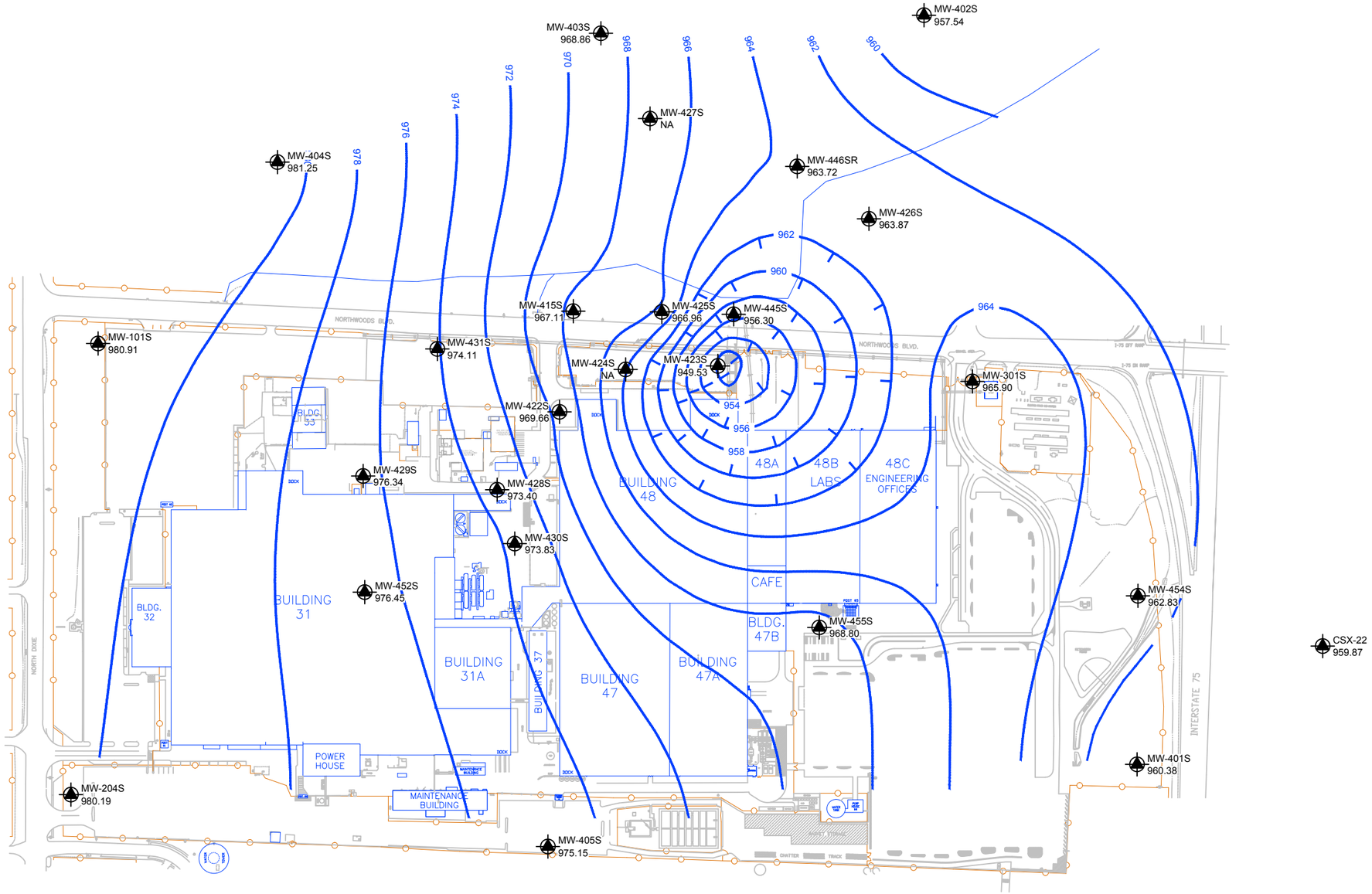
MAHLE BEHR DAYTON LLC
VANDALIA, OHIO

POTENTIOMETRIC SURFACE CONTOURS - 5 MAY 2015 TOP OF ROCK ZONE

SCALE: AS SHOWN
OCTOBER 2015

FIGURE 10

MARCH, HEATHER Printed: 10/2/2015 1:51 PM Layout: HA-FIG-B-L-H
G:\79022\WATER LEVELS\BEDROCK WLS\183 - MAY 2015\2015-0505_TOR_CONTOURS.DWG



LEGEND

MW-204S 979.24	MONITORING WELL OR PIEZOMETER WITH GROUNDWATER ELEVATION
980	POTENTIOMETRIC SURFACE CONTOUR WITH ELEVATION IN FEET
	UNNAMED TRIBUTARY OF NORTH CREEK
NA	MONITORING WELL NOT ACCESSIBLE DUE TO ACCESS RESTRICTIONS

NOTES

1. WATER LEVELS FROM MONITORING WELLS, PIEZOMETERS OR OTHER SOURCES USED FOR THIS PLAN WERE OBSERVED ON THE DATE INDICATED.
2. INDICATED LEVELS MAY NOT REFLECT THE ACTUAL GROUNDWATER OR POTENTIOMETRIC LEVELS. FLUCTUATIONS IN GROUNDWATER LEVELS CAN OCCUR DUE TO CLIMATIC CHANGES, AREA PUMPING ACTIVITY AND OTHER REASONS.
3. POTENTIOMETRIC CONTOUR LINES ARE BASED UPON INTERPOLATION BETWEEN OBSERVATION POINTS AND MAY NOT ACCURATELY DEPICT THE POTENTIOMETRIC SURFACE AT ALL LOCATIONS OR TIMES.
4. MW-424S AND MW-427S WERE NOT GAUGED AND THEREFORE EXCLUDED FROM THE POTENTIOMETRIC SURFACE.

N

0 300 600

SCALE IN FEET

HALEY ALDRICH

MAHLE BEHR DAYTON LLC
VANDALIA, OHIO

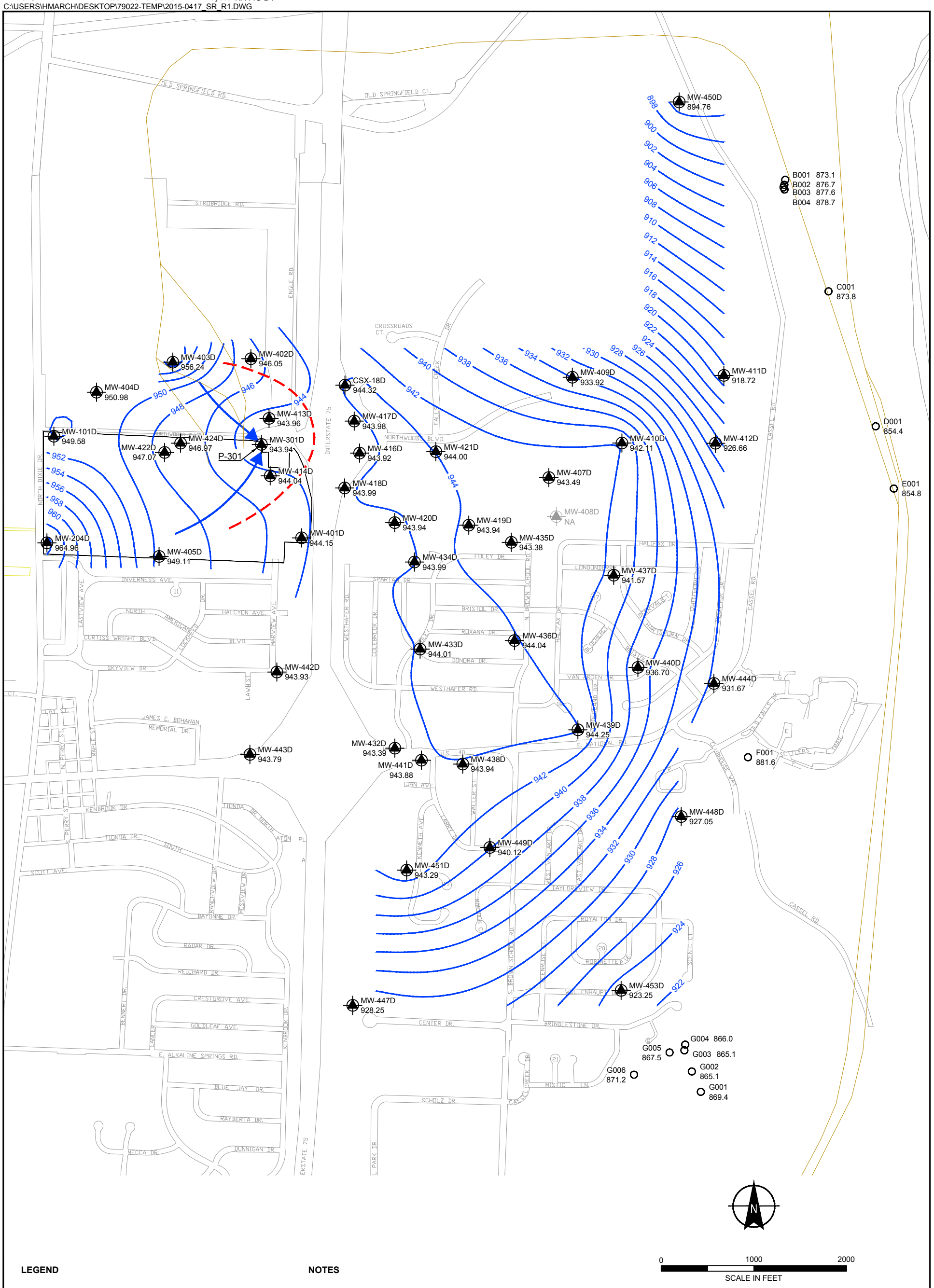
POTENTIOMETRIC SURFACE CONTOURS - 20 AUGUST 2015 TOP OF ROCK ZONE

SCALE: AS SHOWN
OCTOBER 2015

FIGURE 11

MARCH, HEATHER Printed:10/2/2015 2:03 PM Layout: HA-FIG-B-L-H
G:\79022\WATER LEVELS\BEDROCK WLS\186 - AUGUST 2015\2015-0820_TOR_CONTOURS.DWG

MARCH, HEATHER Printed: 10/8/2015 9:16 AM Layout: HA-FIG-B-P
C:\USERS\HMARCH\DESKTOP\79022-TEMP\2015-0417_SR_R1.DWG



LEGEND

- FACILITY BOUNDARY
- MONITORING WELL
- SPRING LOCATION
- POTENTIOMETRIC SURFACE CONTOUR
- EASTERN LIMITS OF APPARENT CAPTURE ZONE

NOTES

1. WATER LEVELS FROM MONITORING WELLS, PIEZOMETERS OR OTHER SOURCES USED FOR THIS PLAN WERE OBSERVED ON THE DATE INDICATED.
2. INDICATED LEVELS MAY NOT REFLECT THE ACTUAL GROUNDWATER OR POTENTIOMETRIC LEVELS. FLUCTUATIONS IN GROUNDWATER LEVELS CAN OCCUR DUE TO CLIMACTIC CHANGES, AREA PUMPING ACTIVITY AND OTHER REASONS.
3. POTENTIOMETRIC CONTOUR LINES ARE BASED UPON INTERPOLATION BETWEEN OBSERVATION POINTS AND MAY NOT ACCURATELY DEPICT THE POTENTIOMETRIC SURFACE AT ALL TIMES.
4. WELLS THAT COULD NOT BE ACCESSED ARE LISTED IN APPENDIX A.

HALEY ALDRICH

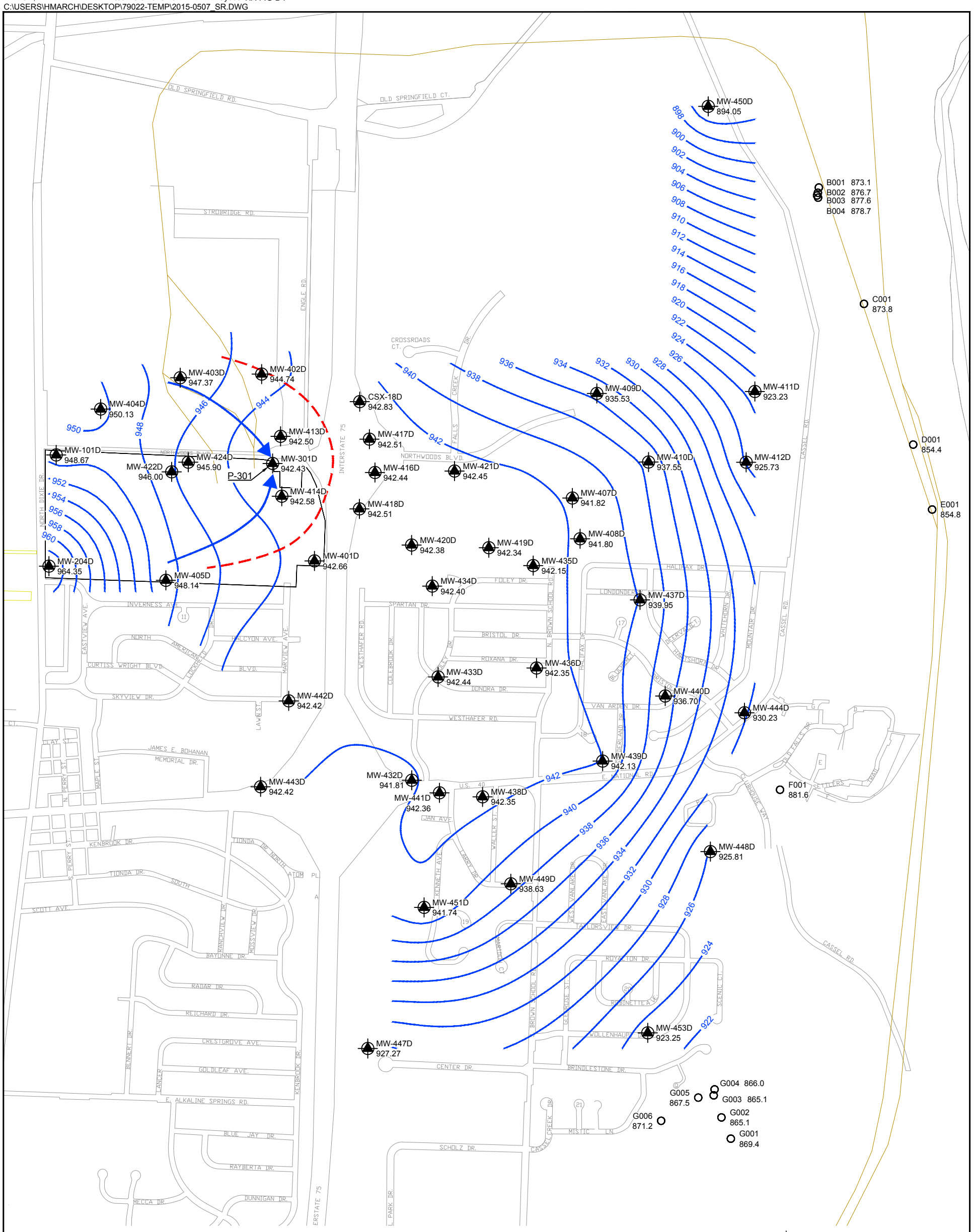
MAHLE BEHR DAYTON LLC
VANDALIA, OHIO

DEEP BEDROCK (SUGAR ROCK/BELFAST TRANSITION ZONE) POTENTIOMETRIC SURFACE CONTOURS - 17 APRIL 2015

SCALE: AS SHOWN
OCTOBER 2015

FIGURE 12

MARCH, HEATHER Printed: 10/8/2015 10:22 AM Layout: HA-FIG-B-P
C:\USERS\HMARCH\DESKTOP\79022-TEMP\2015-0507_SR.DWG



LEGEND

- FACILITY BOUNDARY
- MONITORING WELL
- SPRING LOCATION
- POTENTIOMETRIC SURFACE CONTOUR
- EASTERN LIMITS OF APPARENT CAPTURE ZONE

NOTES

1. WATER LEVELS FROM MONITORING WELLS, PIEZOMETERS OR OTHER SOURCES USED FOR THIS PLAN WERE OBSERVED ON THE DATE INDICATED.
2. INDICATED LEVELS MAY NOT REFLECT THE ACTUAL GROUNDWATER OR POTENTIOMETRIC LEVELS. FLUCTUATIONS IN GROUNDWATER LEVELS CAN OCCUR DUE TO CLIMACTIC CHANGES, AREA PUMPING ACTIVITY AND OTHER REASONS.
3. POTENTIOMETRIC CONTOUR LINES ARE BASED UPON INTERPOLATION BETWEEN OBSERVATION POINTS AND MAY NOT ACCURATELY DEPICT THE POTENTIOMETRIC SURFACE AT ALL TIMES.
4. WELLS THAT COULD NOT BE ACCESSED ARE LISTED IN APPENDIX A.

HALEY ALDRICH

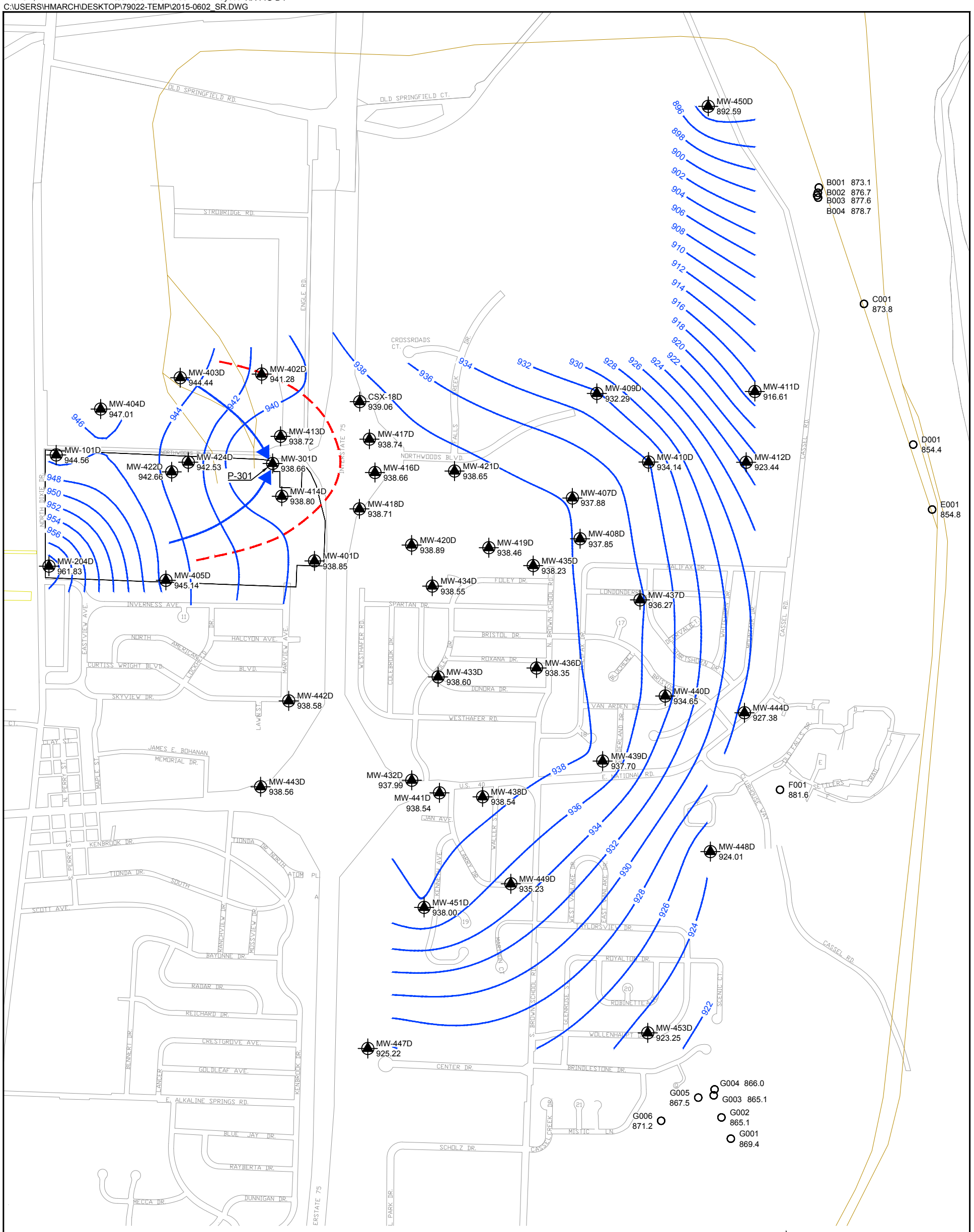
MAHLE BEHR DAYTON LLC
VANDALIA, OHIO

DEEP BEDROCK (SUGAR ROCK/BELFAST TRANSITION ZONE) POTENTIOMETRIC SURFACE CONTOURS - 7 MAY 2015

SCALE: AS SHOWN
OCTOBER 2015

FIGURE 13

MARCH, HEATHER Printed: 10/8/2015 11:50 AM Layout: HA-FIG-B-P
C:\USERS\HMARCH\DESKTOP\79022-TEMP\2015-0602_SR.DWG



LEGEND

- FACILITY BOUNDARY
- MONITORING WELL
- SPRING LOCATION
- POTENTIOMETRIC SURFACE CONTOUR
- EASTERN LIMITS OF APPARENT CAPTURE ZONE

NOTES

1. WATER LEVELS FROM MONITORING WELLS, PIEZOMETERS OR OTHER SOURCES USED FOR THIS PLAN WERE OBSERVED ON THE DATE INDICATED.
2. INDICATED LEVELS MAY NOT REFLECT THE ACTUAL GROUNDWATER OR POTENTIOMETRIC LEVELS. FLUCTUATIONS IN GROUNDWATER LEVELS CAN OCCUR DUE TO CLIMACTIC CHANGES, AREA PUMPING ACTIVITY AND OTHER REASONS.
3. POTENTIOMETRIC CONTOUR LINES ARE BASED UPON INTERPOLATION BETWEEN OBSERVATION POINTS AND MAY NOT ACCURATELY DEPICT THE POTENTIOMETRIC SURFACE AT ALL TIMES.
4. WELLS THAT COULD NOT BE ACCESSED ARE LISTED IN APPENDIX A.

HALEY ALDRICH

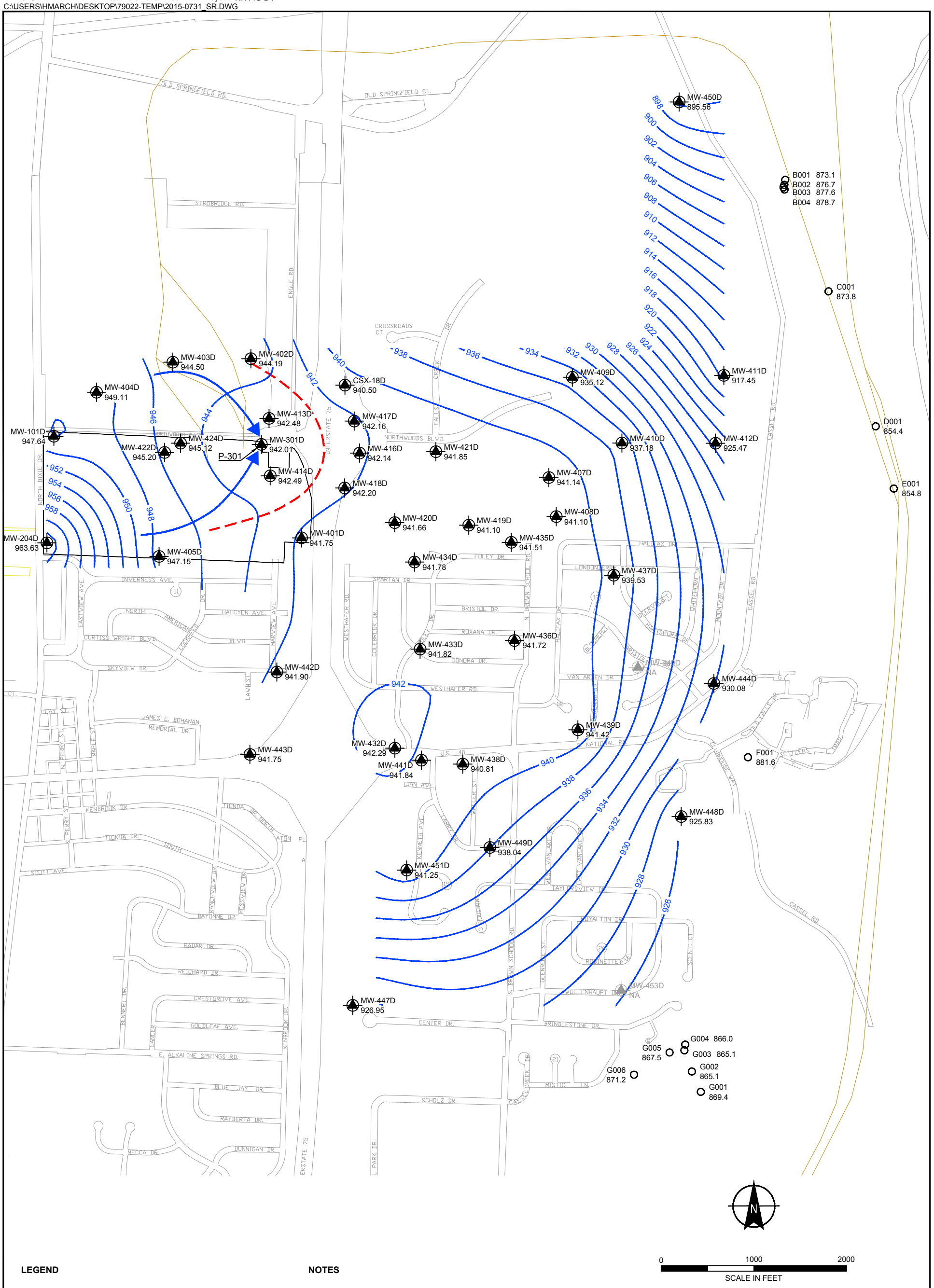
MAHLE BEHR DAYTON LLC
VANDALIA, OHIO

DEEP BEDROCK (SUGAR ROCK/BELFAST TRANSITION ZONE) POTENTIOMETRIC SURFACE CONTOURS - 2 JUNE 2015

SCALE: AS SHOWN
OCTOBER 2015

FIGURE 14

MARCH, HEATHER Printed: 10/8/2015 12:58 PM Layout: HA-FIG-B-P
C:\USERS\HMARCH\DESKTOP\79022-TEMP\2015-0731_SR.DWG



LEGEND

- FACILITY BOUNDARY
- MONITORING WELL
- SPRING LOCATION
- POTENTIOMETRIC SURFACE CONTOUR
- EASTERN LIMITS OF APPARENT CAPTURE ZONE

NOTES

1. WATER LEVELS FROM MONITORING WELLS, PIEZOMETERS OR OTHER SOURCES USED FOR THIS PLAN WERE OBSERVED ON THE DATE INDICATED.
2. INDICATED LEVELS MAY NOT REFLECT THE ACTUAL GROUNDWATER OR POTENTIOMETRIC LEVELS. FLUCTUATIONS IN GROUNDWATER LEVELS CAN OCCUR DUE TO CLIMACTIC CHANGES, AREA PUMPING ACTIVITY AND OTHER REASONS.
3. POTENTIOMETRIC CONTOUR LINES ARE BASED UPON INTERPOLATION BETWEEN OBSERVATION POINTS AND MAY NOT ACCURATELY DEPICT THE POTENTIOMETRIC SURFACE AT ALL TIMES.
4. WELLS THAT COULD NOT BE ACCESSED ARE LISTED IN APPENDIX A.

HALEY ALDRICH

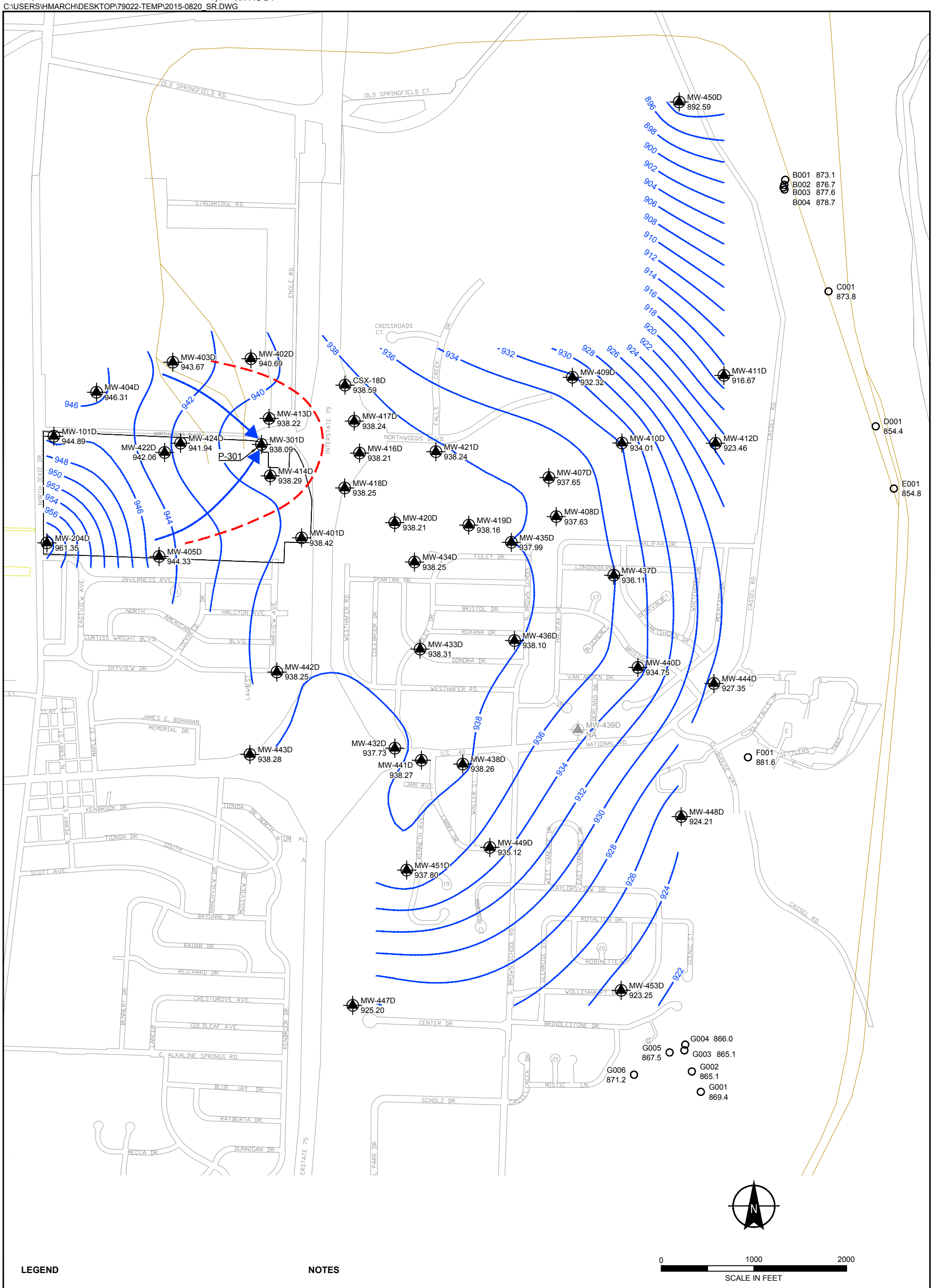
MAHLE BEHR DAYTON LLC
VANDALIA, OHIO

DEEP BEDROCK (SUGAR ROCK/BELFAST TRANSITION ZONE) POTENTIOMETRIC SURFACE CONTOURS - 31 JULY 2015

SCALE: AS SHOWN
OCTOBER 2015

FIGURE 15

MARCH, HEATHER Printed: 10/8/2015 1:26 PM Layout: HA-FIG-B-P
C:\USERS\HMARCH\DESKTOP\79022-TEMP\2015-0820_SR.DWG



LEGEND

- FACILITY BOUNDARY
- MONITORING WELL
- SPRING LOCATION
- POTENTIOMETRIC SURFACE CONTOUR
- EASTERN LIMITS OF APPARENT CAPTURE ZONE

NOTES

1. WATER LEVELS FROM MONITORING WELLS, PIEZOMETERS OR OTHER SOURCES USED FOR THIS PLAN WERE OBSERVED ON THE DATE INDICATED.
2. INDICATED LEVELS MAY NOT REFLECT THE ACTUAL GROUNDWATER OR POTENTIOMETRIC LEVELS. FLUCTUATIONS IN GROUNDWATER LEVELS CAN OCCUR DUE TO CLIMACTIC CHANGES, AREA PUMPING ACTIVITY AND OTHER REASONS.
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4. WELLS THAT COULD NOT BE ACCESSED ARE LISTED IN APPENDIX A.

HALEY ALDRICH

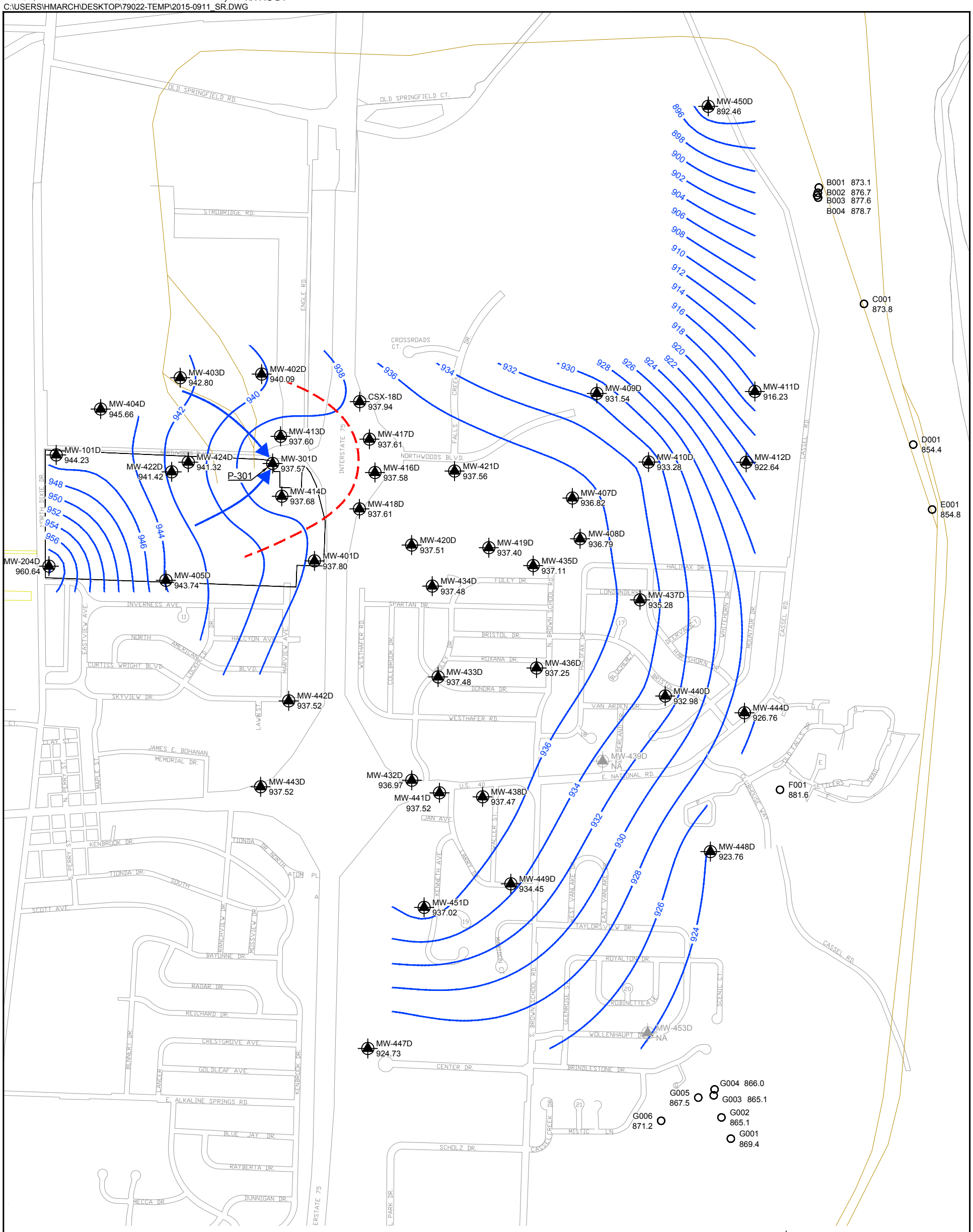
MAHLE BEHR DAYTON LLC
VANDALIA, OHIO

DEEP BEDROCK (SUGAR ROCK/BELFAST TRANSITION ZONE) POTENTIOMETRIC SURFACE CONTOURS - 20 AUGUST 2015

SCALE: AS SHOWN
OCTOBER 2015

FIGURE 16

MARCH, HEATHER Printed: 10/8/2015 1:49 PM Layout: HA-FIG-B-P
C:\USERS\HMARCH\DESKTOP\79022-TEMP\2015-0911_SR.DWG



LEGEND

- FACILITY BOUNDARY
- MONITORING WELL
- SPRING LOCATION
- POTENTIOMETRIC SURFACE CONTOUR
- EASTERN LIMITS OF APPARENT CAPTURE ZONE

NOTES

1. WATER LEVELS FROM MONITORING WELLS, PIEZOMETERS OR OTHER SOURCES USED FOR THIS PLAN WERE OBSERVED ON THE DATE INDICATED.
2. INDICATED LEVELS MAY NOT REFLECT THE ACTUAL GROUNDWATER OR POTENTIOMETRIC LEVELS. FLUCTUATIONS IN GROUNDWATER LEVELS CAN OCCUR DUE TO CLIMACTIC CHANGES, AREA PUMPING ACTIVITY AND OTHER REASONS.
3. POTENTIOMETRIC CONTOUR LINES ARE BASED UPON INTERPOLATION BETWEEN OBSERVATION POINTS AND MAY NOT ACCURATELY DEPICT THE POTENTIOMETRIC SURFACE AT ALL TIMES.
4. WELLS THAT COULD NOT BE ACCESSED ARE LISTED IN APPENDIX A.

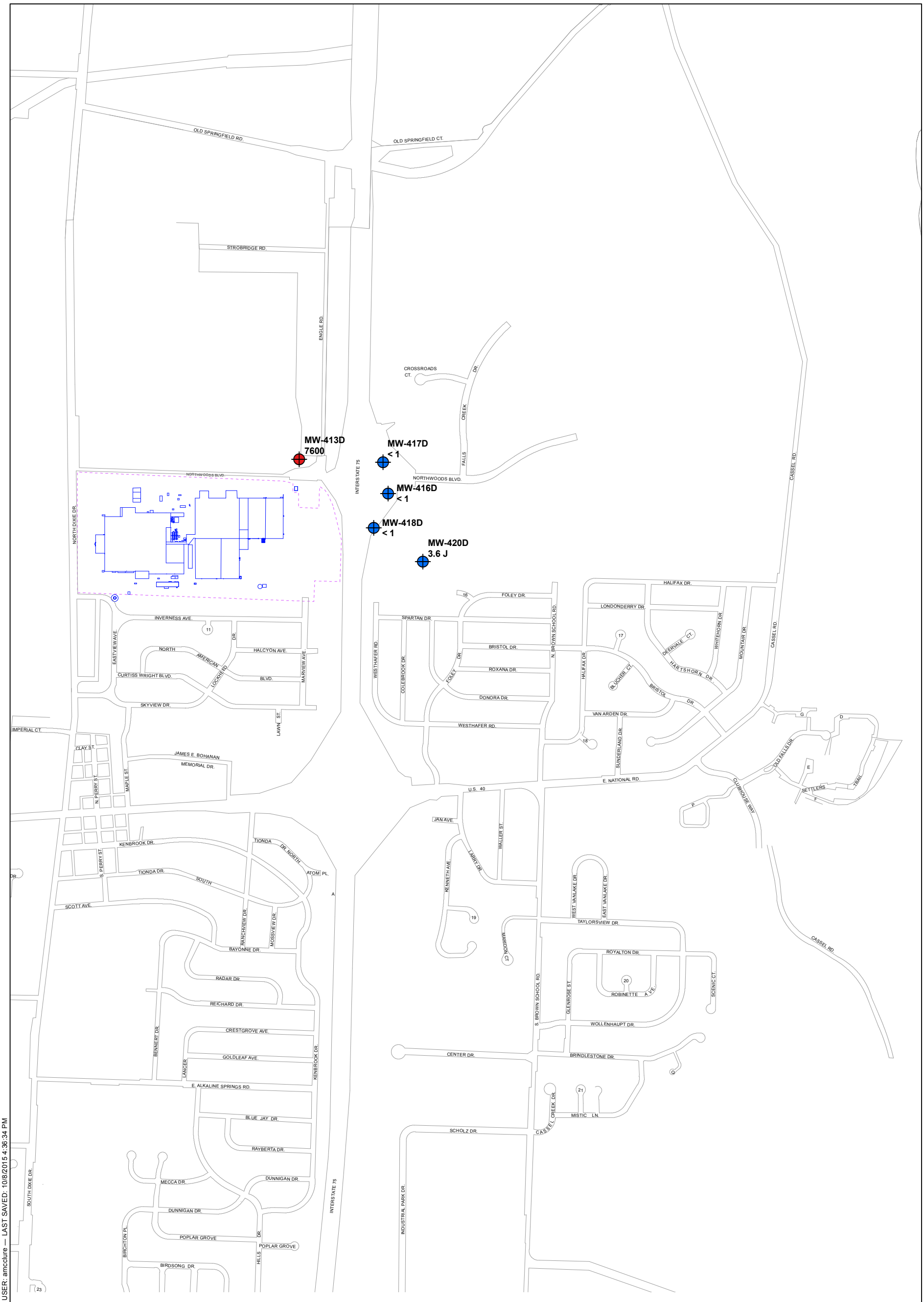
HALEY ALDRICH

MAHLE BEHR DAYTON LLC
VANDALIA, OHIO

DEEP BEDROCK (SUGAR ROCK/BELFAST TRANSITION ZONE) POTENTIOMETRIC SURFACE CONTOURS - 11 SEPTEMBER 2015

SCALE: AS SHOWN
OCTOBER 2015

FIGURE 17



LEGEND

- < 1 - 10 ug/L
- >10 - 50 ug/L
- >50 - 500 ug/L
- >500 - 5,000 ug/L
- > 5,000 ug/L

ROAD

APPROXIMATE FACILITY BOUNDARY

BUILDING

MW-416D
< 1
MONITORING WELL WITH TRICHLOROETHENE (TCE) RESULT IN ug/L

N

0 1,000 2,000
SCALE IN FEET

HALEY ALDRICH

MAHLE BEHR DAYTON LLC
VANDALIA, OHIO

SECOND QUARTER 2015
TCE IN SUGAR ROCK

OCTOBER 2015

FIGURE 18

Attachment A
Water Level Measurements

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
BEDROCK MONITORING WELLS
APRIL 2015
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
CSX-18D	SR	4/17/2015	11:27	20.64	964.96	944.32	
MW-101D	SR	4/17/2015	12:56	38.66	988.24	949.58	
MW-204D	SR	4/17/2015	12:03	29.30	994.26	964.96	
MW-301D	SR	4/17/2015	10:58	26.50	970.44	943.94	
MW-401D	SR	4/17/2015	10:04	30.42	974.57	944.15	
MW-402D	SR	4/17/2015	12:00	20.31	966.36	946.05	
MW-403D	SR	4/17/2015	11:52	21.12	977.36	956.24	
MW-404D	SR	4/17/2015	12:43	37.85	988.83	950.98	
MW-405D	SR	4/17/2015	12:11	33.34	982.45	949.11	
MW-407D	SR	4/17/2015	16:08	12.75	956.24	943.49	
MW-408D	SR	4/17/2015	0:00				not measured
MW-409D	SR	4/17/2015	15:43	8.57	942.49	933.92	
MW-410D	SR	4/17/2015	15:33	5.52	947.63	942.11	
MW-411D	SR	4/17/2015	15:02	24.71	943.43	918.72	
MW-412D	SR	4/17/2015	14:58	22.98	949.64	926.66	
MW-413D	SR	4/17/2015	11:10	26.17	970.13	943.96	
MW-414D	SR	4/17/2015	10:55	27.87	971.91	944.04	
MW-416D	SR	4/17/2015	11:22	21.92	965.84	943.92	
MW-417D	SR	4/17/2015	11:32	20.98	964.96	943.98	
MW-418D	SR	4/17/2015	11:19	21.07	965.06	943.99	
MW-419D	SR	4/17/2015	15:22	23.46	967.40	943.94	
MW-419M	MB	4/17/2015	0:00				not measured
MW-420D	SR	4/17/2015	15:20	21.32	965.26	943.94	
MW-420M	MB	4/17/2015	0:00				not measured
MW-421D	SR	4/17/2015	15:26	14.50	958.50	944.00	
MW-422D	SR	4/17/2015	12:22	33.91	980.98	947.07	
MW-424D	SR	4/17/2015	12:26	32.77	979.74	946.97	
MW-432D	SR	4/17/2015	13:13	31.11	974.50	943.39	
MW-432M	MB	4/17/2015	13:12	18.31	974.90	956.59	
MW-433D	SR	4/17/2015	14:30	26.42	970.43	944.01	
MW-434D	SR	4/17/2015	14:24	21.34	965.33	943.99	
MW-435D	SR	4/17/2015	14:22	12.53	955.91	943.38	
MW-436D	SR	4/17/2015	14:16	18.33	962.37	944.04	
MW-437D	SR	4/17/2015	14:46	6.81	948.38	941.57	
MW-438D	SR	4/17/2015	13:46	28.65	972.59	943.94	
MW-439D	SR	4/17/2015	14:37	11.33	955.58	944.25	
MW-440D	SR	4/17/2015	14:41	0.00	936.70	936.70	flowing artesian
MW-441D	SR	4/17/2015	13:34	30.50	974.38	943.88	
MW-442D	SR	4/17/2015	13:03	31.75	975.68	943.93	
MW-443D	SR	4/17/2015	16:38	35.93	979.72	943.79	
MW-444D	SR	4/17/2015	15:06	2.51	934.18	931.67	
MW-447D	SR	4/17/2015	14:00	37.59	965.84	928.25	
MW-448D	SR	4/17/2015	15:11	8.33	935.38	927.05	
MW-449D	SR	4/17/2015	13:50	30.32	970.44	940.12	
MW-450D	SR	4/17/2015	14:52	15.75	910.51	894.76	
MW-451D	SR	4/17/2015	13:41	24.03	967.32	943.29	
MW-453D	SR	4/17/2015	14:06	0.00	923.25	923.25	flowing artesian

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
TOP OF ROCK MONITORING WELLS
MAY 2015
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
CSX-22	TOR	5/5/2015	12:43	6.81	967.35	960.54	
MW-101S	TOR	5/5/2015	13:44	6.40	988.04	981.64	
MW-204S	TOR	5/5/2015	13:40	13.03	993.94	980.91	
MW-301S	TOR	5/5/2015	13:19	4.12	971.03	966.91	
MW-401S	TOR	5/5/2015	13:11	13.42	974.73	961.31	
MW-402S	TOR	5/5/2015	12:36	8.80	966.62	957.82	
MW-403S	TOR	5/5/2015	11:56	6.40	976.61	970.21	
MW-404S	TOR	5/5/2015	13:24	7.43	989.50	982.07	
MW-405S	TOR	5/5/2015	14:09	6.57	982.47	975.90	
MW-407S	TOR	5/5/2015	11:17	2.11	952.99	950.88	
MW-412S	TOR	5/5/2015	11:36	0.46	949.79	949.33	
MW-415S	TOR	5/5/2015	12:20	8.51	976.78	968.27	
MW-422S	TOR	5/5/2015	14:16	10.64	981.27	970.63	
MW-423S	TOR	5/5/2015	14:13	26.50	978.96	952.46	
MW-424S	TOR	5/5/2015	14:18	20.98	980.06	959.08	
MW-425S	TOR	5/5/2015	14:26	8.03	976.09	968.06	
MW-426S	TOR	5/5/2015	12:31	2.48	967.24	964.76	
MW-427S	TOR	5/5/2015	0:00		974.54		Covered
MW-428S	TOR	5/5/2015	13:51	11.21	985.43	974.22	
MW-429S	TOR	5/5/2015	13:57	8.01	985.08	977.07	
MW-430S	TOR	5/5/2015	14:11	10.28	984.87	974.59	
MW-431S	TOR	5/5/2015	13:48	7.63	982.46	974.83	
MW-445S	TOR	5/5/2015	14:29	17.94	976.07	958.13	
MW-446SR	TOR	5/5/2015	12:07	7.41	972.04	964.63	
MW-452S	TOR	5/5/2015	14:00	11.97	989.13	977.16	
MW-454S	TOR	5/5/2015	13:15	5.52	969.38	963.86	
MW-455S	TOR	5/5/2015	13:08	6.90	976.65	969.75	

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
OVERBURDEN MONITORING WELLS
MAY 2015
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
HA-1	S2	5/6/2015	14:25	8.73	982.24	973.51	
HA-2	S2	5/6/2015	14:15	7.45	982.70	975.25	
HA-3	S2	5/6/2015	14:05	9.01	982.61	973.60	
HA-4	S1	5/6/2015	14:08	3.71	981.14	977.43	
HA-5	WT	5/6/2015	14:18	5.40	982.94	977.54	
IF-2	WT/S1	5/6/2015	9:15	1.65	978.64	976.99	
IF-3	WT/S1	5/6/2015	9:19	1.13	978.61	977.48	
MW-130	S1	5/6/2015	13:12	2.33	986.02	983.69	
MW-131	S1	5/6/2015	13:15	3.73	985.72	981.99	
MW-132	WT/S1	5/6/2015	13:28	3.42	984.07	980.65	
MW-133	S1	5/6/2015	13:40	4.66	983.13	978.47	
MW-134	WT/S1	5/6/2015	13:50	1.90	979.78	977.88	
MW-135	WT/S1	5/6/2015	11:27	3.44	984.86	981.42	
MW-136	WT/S1	5/6/2015	0:00		985.67		Covered
MW-137	S2	5/6/2015	13:48	8.56	982.24	973.68	
MW-138	S1	5/6/2015	13:49	2.93	982.24	979.31	
MW-501	S2	5/6/2015	13:08	4.86	988.73	983.87	
MW-502	S1/S2	5/6/2015	12:52	4.85	990.20	985.35	
MW-503	S1	5/6/2015	10:45	5.98	994.49	988.51	
MW-504R	S1	5/6/2015	11:14	2.58	984.42	981.84	
MW-505	S1/S2	5/6/2015	12:55	4.85	989.28	984.43	
MW-506	S1	5/6/2015	12:29	3.66	988.96	985.30	
MW-507	S1	5/6/2015	11:00	4.93	988.96	984.03	
MW-508	S2	5/6/2015	11:46	11.15	989.07	977.92	
MW-509	S2	5/6/2015	14:28	8.04	985.40	977.36	
MW-510R	S2	5/6/2015	15:10	6.01	981.51	975.50	
MW-511	S2	5/6/2015	14:52	5.55	980.06	974.51	
MW-512	WT	5/6/2015	9:42	3.80	979.15	975.35	
MW-513	S2	5/6/2015	12:58	8.90	974.84	965.94	
MW-514	S2	5/6/2015	12:55		968.31		Flooded
MW-515	S2	5/6/2015	13:14	3.89	970.44	966.55	
MW-516	S2	5/6/2015	9:40	7.89	978.83	970.94	
MW-601	WT	5/6/2015	11:02	2.34	979.47	977.13	
MW-602	WT	5/6/2015	13:40	3.54	981.94	978.40	
MW-603	WT	5/6/2015	14:06	5.48	984.42	978.94	
MW-604	S1	5/6/2015	13:48	2.97	981.77	978.80	
MW-605	S2	5/6/2015	10:54	7.45	978.62	971.17	
MW-606	S1	5/6/2015	13:45	4.32	982.87	978.55	
MW-607	WT/S1	5/6/2015	9:48	2.58	979.87	977.29	
MW-700	S1	5/6/2015	10:55	5.59	988.77	983.18	
MW-701	S1	5/6/2015	12:31	5.27	988.92	983.65	
MW-702	S1	5/6/2015	12:00	0.02	989.24	989.22	
MW-703R	S1	5/6/2015	11:53	2.33	988.84	986.51	
MW-705	S1	5/6/2015	11:53	11.43	989.17	977.74	
MW-706	WT	5/6/2015	11:40	6.10	987.67	981.57	
MW-707	S1	5/6/2015	11:05	4.98	989.06	984.08	
MW-708	S2	5/6/2015	14:52	8.18	985.24	977.06	
MW-709	S1	5/6/2015	11:10	7.54	989.10	981.56	
MW-710	WT/S1	5/6/2015	11:23	3.82	985.15	981.33	
MW-711	S1	5/6/2015	11:55	7.70	989.16	981.46	
MW-712	WT/S1	5/6/2015	15:00	2.31	982.31	980.00	
MW-715	S1	5/6/2015	10:02	5.22	982.30	977.08	
MW-716	S2	5/6/2015	10:19	9.36	982.31	972.95	
MW-717	S2	5/6/2015	8:58	5.64	979.82	974.18	
MW-718	WT/S1	5/6/2015	9:08	3.65	980.27	976.62	
MW-719	S2	5/6/2015	9:05	5.94	979.01	973.07	
MW-720	S1	5/6/2015	12:30	6.97	979.29	972.32	
MW-721	S2	5/6/2015	14:27	7.91	984.81	976.90	
MW-722R	WT	5/6/2015	11:00	2.90	987.71	984.81	

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
OVERBURDEN MONITORING WELLS
MAY 2015
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
MW-723	WT	5/6/2015	0:00		984.75		Abandoned
MW-724	WT/S1	5/6/2015	12:25		979.15	DRY	Dry
MW-725	S2	5/6/2015	12:43	5.98	978.46	972.48	
MW-726	WT/S1	5/6/2015	12:45	3.01	978.70	975.69	
MW-727	S2	5/6/2015	12:40	5.52	977.84	972.32	
MW-728	WT/S1	5/6/2015	12:38	2.55	978.07	975.52	
MW-729	WT/S1	5/6/2015	8:50	3.05	977.20	974.15	
MW-730	S1	5/6/2015	15:30	2.62	982.08	979.46	
MW-731	S2	5/6/2015	8:48	4.60	977.19	972.59	
MW-732	S1	5/6/2015	10:56	0.92	978.89	977.97	
MW-733	S2	5/6/2015	12:36	6.55	978.98	972.43	
MW-734	WT/S1	5/6/2015	12:35	7.02	979.14	972.12	
MW-735	S2	5/6/2015	13:01	6.50	985.47	978.97	
MW-736	S2	5/6/2015	15:40	5.33	979.45	974.12	
MW-737	S2	5/6/2015	9:17	6.28	978.96	972.68	
MW-738	WT	5/6/2015	11:11	1.75	987.75	986.00	
MW-739	WT	5/6/2015	11:50	2.80	989.05	986.25	
MW-740	S2	5/6/2015	15:55	1.87	973.82	971.95	
MW-741	S2	5/6/2015	16:20	7.75	976.19	968.44	
MW-742	S2	5/6/2015	13:31	8.68	980.17	971.49	
MW-743	S2	5/6/2015	12:48	5.46	976.89	971.43	
MW-744	WT	5/6/2015	11:43	6.30	987.55	981.25	
MW-745	S2	5/6/2015	14:40	6.75	982.49	975.74	
MW-746	S2	5/6/2015	11:09	9.00	987.64	978.64	
MW-747R	S1	5/6/2015	10:57	6.85	988.14	981.29	
MW-748	S1	5/6/2015	15:06	4.15	981.98	977.83	
MW-749	WT	5/6/2015	15:05	1.01	981.94	980.93	
MW-750	WT	5/6/2015	13:20	2.44	985.50	983.06	
MW-753	WT	5/6/2015	10:44	2.35	985.37	983.02	
MW-754	WT	5/6/2015	10:50	3.03	986.08	983.05	
MW-757	WT	5/6/2015	11:56	1.73	988.95	987.22	
MW-758	S2	5/6/2015	15:35	2.41	982.34	979.93	
MW-759	S2	5/6/2015	16:20	4.23	976.87	972.64	
MW-760	WT	5/6/2015	14:38	3.76	984.49	980.73	
MW-764	WT/S1	5/6/2015	14:33	3.92	982.78	978.86	
MW-765	WT	5/6/2015	11:51	2.32	988.96	986.64	
MW-766	WT	5/6/2015	0:00		987.15		Covered
MW-767	WT	5/6/2015	10:57	5.41	988.92	983.51	
MW-768	WT	5/6/2015	0:00		985.64		Abandoned
MW-770	S1/S2	5/6/2015	10:55	7.60	992.62	985.02	
MW-771	WT	5/6/2015	10:53	2.10	992.54	990.44	
MW-772R	WT	5/6/2015	11:04	4.88			
MW-773	S1	5/6/2015	12:47	3.50	989.24	985.74	
MW-774	WT	5/6/2015	12:45	1.90	989.06	987.16	
MW-775	WT	5/6/2015	16:00	2.35	976.91	974.56	
MW-776	WT/S1	5/6/2015	15:50	1.00	974.01	973.01	
MW-777	S1	5/6/2015	13:30	5.68	985.65	979.97	
MW-778	S2	5/6/2015	8:09	5.88	982.78	976.90	
MW-779	S2	5/6/2015	11:00	8.44	979.40	970.96	
MW-780R	WT/S1	5/6/2015	15:10	3.98	984.63	980.65	
MW-781	WT	5/6/2015	10:26	4.54	982.06	981.86	
MW-782	WT/S1	5/6/2015	14:50	3.60	980.19	976.59	
MW-784	WT	5/6/2015	8:56	2.31	980.09	977.78	
MW-786	S2	5/6/2015	10:58	8.23	979.35	971.12	
MW-787	WT	5/6/2015	10:17	7.10	982.12	975.02	
MW-788	WT	5/6/2015	11:07	5.05	986.90	981.85	
MW-789	WT/S1	5/6/2015	13:30	4.01	982.43	978.42	
MW-790	WT	5/6/2015	12:07	2.85	988.92	986.07	
MW-792	S2	5/6/2015	12:04	10.48	989.02	978.54	

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
OVERBURDEN MONITORING WELLS
MAY 2015
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
MW-793	WT/S1	5/6/2015	10:15	6.95	982.03	975.08	
MW-794	WT/S1	5/6/2015	10:24	5.37	982.07	976.70	
MW-795	WT	5/6/2015	0:00		982.12		Product
MW-796	WT/S1	5/6/2015	13:36	3.08	980.25	977.17	
MW-797	S1	5/6/2015	0:00		985.68		Abandoned
MW-798	S2	5/6/2015	0:00		982.19		Product
MW-799	S2	5/6/2015	10:29	8.25	982.09	973.84	
MW-800	S2	5/6/2015	16:10	7.03	978.99	971.96	
MW-801	S1	5/6/2015	0:00		987.12		Covered
MW-802	WT	5/6/2015	12:26	3.30	988.71	985.41	
MW-804R	S1	5/6/2015	12:24	10.99	988.77	977.78	
MW-805	WT	5/6/2015	10:52	3.21	985.92	982.71	
MW-806	WT	5/6/2015	10:05	6.88	982.15	975.27	
MW-807	S2	5/6/2015	0:00		982.08		Covered
MW-808	S2	5/6/2015	10:22	8.93	982.20	973.27	
MW-809	S1/S2	5/6/2015	10:10	7.61	982.16	974.55	
MW-810	WT	5/6/2015	13:25	7.82	980.48	972.66	
MW-811	WT	5/6/2015	14:55	3.23	982.88	979.65	
MW-812	S2	5/6/2015	13:01	4.48	969.95	965.47	
MW-813	S2	5/6/2015	13:09	5.75	975.43	969.68	
MW-814	WT/S1	5/6/2015	14:43	5.25	976.17	970.92	
MW-815	WT/S1	5/6/2015	10:44	7.19	979.30	972.11	
N001	WT	5/6/2015	0:00		985.43		Covered
N002	WT	5/6/2015	12:41	5.10	985.20	980.10	
N003	WT	5/6/2015	0:00		985.28		Covered
N1	WT	5/6/2015	12:45	5.60	989.43	983.83	
N10	WT	5/6/2015	0:00		982.92		Covered
N11	WT	5/6/2015	9:30	2.50	981.63	979.13	
N12	WT	5/6/2015	9:52	9.12	984.82	975.70	
N13	WT	5/6/2015	9:32	3.69	982.21	978.52	
N15	WT	5/6/2015	9:36	3.90	982.47	978.57	
N16	WT	5/6/2015	9:44	2.75	982.04	979.29	
N17	WT	5/6/2015	9:46	3.65	982.23	978.58	
N2	WT	5/6/2015	0:00		989.37		Covered
N23	WT	5/6/2015	9:38	6.17	980.57	974.40	
N25	WT	5/6/2015	12:35	4.40	985.33	980.93	
N26	WT	5/6/2015	12:38	4.35	983.29	978.94	
N57	WT	5/6/2015	9:50	7.55	982.50	974.95	
N62 (E2)	WT	5/6/2015	9:34	4.28			
N63	WT	5/6/2015	12:54	7.35	979.19	971.84	
N64	WT	5/6/2015	12:56	7.25	978.34	971.09	
N7	WT	5/6/2015	0:00		985.19		Covered
N9	WT	5/6/2015	12:40	6.93	985.38	978.45	
PZ-1	WT	5/6/2015	15:20	3.41	978.64	975.23	
PZ-10	WT	5/6/2015	14:02	6.32	983.23	976.91	
PZ-11	WT	5/6/2015	0:00		983.34		Covered
PZ-12	WT	5/6/2015	11:47	2.01	982.95	980.94	
PZ-13	WT	5/6/2015	11:42		983.61		Flooded
PZ-14	WT	5/6/2015	11:37	3.03	984.21	981.18	
PZ-15	WT	5/6/2015	11:34	4.52	985.51	980.99	
PZ-16R	WT	5/6/2015	11:32	4.79	985.16	980.37	
PZ-17	WT	5/6/2015	15:07	2.61	983.49	980.88	
PZ-18	WT	5/6/2015	11:18	3.58	985.28	981.70	
PZ-19	WT	5/6/2015	14:22	5.52	983.58	978.06	
PZ-2	WT	5/6/2015	0:00		978.12		Covered
PZ-20	WT	5/6/2015	14:07	2.47	982.28	979.81	
PZ-21	WT	5/6/2015	11:47	1.33	989.15	987.82	
PZ-22R	WT	5/6/2015	12:21	5.30	988.78	983.48	
PZ-23	WT	5/6/2015	11:58	4.00	989.04	985.04	

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
OVERBURDEN MONITORING WELLS
MAY 2015
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
PZ-24	WT	5/6/2015	11:42	1.88	988.99	987.11	
PZ-25	WT	5/6/2015	11:44	1.68	988.92	987.24	
PZ-26	WT	5/6/2015	0:00		989.05		Product
PZ-28	WT	5/6/2015	11:58	2.97	989.02	986.05	
PZ-29R	WT	5/6/2015	12:58	0.01	988.22	988.21	
PZ-3	WT	5/6/2015	13:45	1.45	981.55	980.10	
PZ-30	WT	5/6/2015	0:00		985.25		Covered
PZ-31	WT	5/6/2015	11:51	2.60	988.98	986.38	
PZ-4	WT	5/6/2015	14:10	1.58	981.32	979.74	
PZ-5	WT	5/6/2015	10:52	2.30	979.59	977.29	
PZ-6	WT	5/6/2015	13:42	4.33	981.83	977.50	
PZ-7	WT	5/6/2015	13:39	4.07	982.66	978.59	
PZ-8	WT	5/6/2015	0:00		983.11		Covered
PZ-9	WT	5/6/2015	13:44	3.94	982.63	978.69	
VAW-115R	WT/S1	5/6/2015	10:46	3.71	985.24	981.53	
VBW-111	WT/S1	5/6/2015	13:35	4.16	984.26	980.10	
VBW-112	S1	5/6/2015	13:25	7.05	985.44	978.39	
VBW-113	WT	5/6/2015	11:27	4.46	985.87	981.41	
VCW-110	WT/S1	5/6/2015	0:00		985.84		Covered
VDW-108	S2	5/6/2015	14:04	9.84	983.76	973.92	
VEW-105	WT	5/6/2015	0:00		988.08		Covered
VEW-106	WT	5/6/2015	11:10	2.30	987.79	985.49	
VEW-114R	WT	5/6/2015	10:54	3.02	988.86	985.84	
VFW-104	WT/S2	5/6/2015	8:52	2.74	978.74	976.00	
VPW-101	S1	5/6/2015	13:05	3.15	986.81	983.66	
VPW-102	S2	5/6/2015	13:04	2.74	966.75	964.01	
VPW-103	WT/S1	5/6/2015	14:45	3.63	982.05	978.42	

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
BEDROCK MONITORING WELLS
MAY 2015
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
CSX-18D	SR	5/7/2015	10:25	22.13	964.96	942.83	
MW-101D	SR	5/7/2015	11:37	39.57	988.24	948.67	
MW-204D	SR	5/7/2015	11:30	29.91	994.26	964.35	
MW-301D	SR	5/7/2015	10:00	28.01	970.44	942.43	
MW-401D	SR	5/7/2015	14:00	31.91	974.57	942.66	
MW-402D	SR	5/7/2015	13:50	21.62	966.36	944.74	
MW-403D	SR	5/7/2015	10:57	29.99	977.36	947.37	
MW-404D	SR	5/7/2015	11:25	38.70	988.83	950.13	
MW-405D	SR	5/7/2015	11:11	34.31	982.45	948.14	
MW-407D	SR	5/7/2015	15:23	14.42	956.24	941.82	
MW-408D	SR	5/7/2015	13:15	15.27	957.07	941.80	
MW-409D	SR	5/7/2015	14:39	6.96	942.49	935.53	
MW-410D	SR	5/7/2015	14:55	10.08	947.63	937.55	
MW-411D	SR	5/7/2015	13:20	20.20	943.43	923.23	
MW-412D	SR	5/7/2015	13:15	23.91	949.64	925.73	
MW-413D	SR	5/7/2015	10:03	27.63	970.13	942.50	
MW-414D	SR	5/7/2015	9:55	29.33	971.91	942.58	
MW-416D	SR	5/7/2015	10:20	23.40	965.84	942.44	
MW-417D	SR	5/7/2015	10:29	22.45	964.96	942.51	
MW-418D	SR	5/7/2015	10:17	22.55	965.06	942.51	
MW-419D	SR	5/7/2015	14:22	25.06	967.40	942.34	
MW-419M	MB	5/7/2015	14:21	25.05	967.50	942.45	
MW-420D	SR	5/7/2015	14:16	22.88	965.26	942.38	
MW-420M	MB	5/7/2015	14:15	22.28	964.85	942.57	
MW-421D	SR	5/7/2015	14:25	16.05	958.50	942.45	
MW-422D	SR	5/7/2015	11:15	34.98	980.98	946.00	
MW-424D	SR	5/7/2015	11:18	33.84	979.74	945.90	
MW-432D	SR	5/7/2015	10:57	32.69	974.50	941.81	
MW-432M	MB	5/7/2015	10:58	18.89	974.90	956.01	
MW-433D	SR	5/7/2015	12:46	27.99	970.43	942.44	
MW-434D	SR	5/7/2015	12:50	22.93	965.33	942.40	
MW-435D	SR	5/7/2015	12:56	13.76	955.91	942.15	
MW-436D	SR	5/7/2015	12:42	20.02	962.37	942.35	
MW-437D	SR	5/7/2015	13:01	8.43	948.38	939.95	
MW-438D	SR	5/7/2015	12:15	30.24	972.59	942.35	
MW-439D	SR	5/7/2015	12:35	13.45	955.58	942.13	
MW-440D	SR	5/7/2015	12:38	0.00	936.70	936.70	flowing artesian
MW-441D	SR	5/7/2015	12:05	32.02	974.38	942.36	
MW-442D	SR	5/7/2015	11:49	33.26	975.68	942.42	
MW-443D	SR	5/7/2015	13:44	37.30	979.72	942.42	
MW-444D	SR	5/7/2015	13:30	3.95	934.18	930.23	
MW-447D	SR	5/7/2015	12:25	38.57	965.84	927.27	
MW-448D	SR	5/7/2015	13:35	9.57	935.38	925.81	
MW-449D	SR	5/7/2015	12:20	31.81	970.44	938.63	
MW-450D	SR	5/7/2015	13:11	16.46	910.51	894.05	
MW-451D	SR	5/7/2015	12:10	25.58	967.32	941.74	
MW-453D	SR	5/7/2015	12:30	0.00	923.25	923.25	flowing artesian

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
BEDROCK MONITORING WELLS
JUNE 2015
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
CSX-18D	SR	6/2/2015	10:01	25.90	964.96	939.06	
MW-101D	SR	6/2/2015	11:03	43.68	988.24	944.56	
MW-204D	SR	6/2/2015	11:01	32.43	994.26	961.83	
MW-301D	SR	6/2/2015	10:08	31.78	970.44	938.66	
MW-401D	SR	6/2/2015	14:35	35.72	974.57	938.85	
MW-402D	SR	6/2/2015	10:23	25.08	966.36	941.28	
MW-403D	SR	6/2/2015	10:32	32.92	977.36	944.44	
MW-404D	SR	6/2/2015	10:53	41.82	988.83	947.01	
MW-405D	SR	6/2/2015	10:42	37.31	982.45	945.14	
MW-407D	SR	6/2/2015	14:24	18.36	956.24	937.88	
MW-408D	SR	6/2/2015	14:18	19.22	957.07	937.85	
MW-409D	SR	6/2/2015	14:02	10.20	942.49	932.29	
MW-410D	SR	6/2/2015	14:10	13.49	947.63	934.14	
MW-411D	SR	6/2/2015	12:46	26.82	943.43	916.61	
MW-412D	SR	6/2/2015	12:41	26.20	949.64	923.44	
MW-413D	SR	6/2/2015	10:11	31.41	970.13	938.72	
MW-414D	SR	6/2/2015	9:48	33.11	971.91	938.80	
MW-416D	SR	6/2/2015	9:58	27.18	965.84	938.66	
MW-417D	SR	6/2/2015	10:04	26.22	964.96	938.74	
MW-418D	SR	6/2/2015	9:55	26.35	965.06	938.71	
MW-419D	SR	6/2/2015	13:44	28.94	967.40	938.46	
MW-419M	MB	6/2/2015	13:42	28.88	967.50	938.62	
MW-420D	SR	6/2/2015	13:32	26.37	965.26	938.89	
MW-420M	MB	6/2/2015	13:35	26.10	964.85	938.75	
MW-421D	SR	6/2/2015	13:49	19.85	958.50	938.65	
MW-422D	SR	6/2/2015	10:49	38.32	980.98	942.66	
MW-424D	SR	6/2/2015	10:45	37.21	979.74	942.53	
MW-432D	SR	6/2/2015	11:22	36.51	974.50	937.99	
MW-432M	MB	6/2/2015	11:24	20.77	974.90	954.13	
MW-433D	SR	6/2/2015	12:04	31.83	970.43	938.60	
MW-434D	SR	6/2/2015	12:10	26.78	965.33	938.55	
MW-435D	SR	6/2/2015	12:08	17.68	955.91	938.23	
MW-436D	SR	6/2/2015	12:00	24.02	962.37	938.35	
MW-437D	SR	6/2/2015	12:23	12.11	948.38	936.27	
MW-438D	SR	6/2/2015	11:36	34.05	972.59	938.54	
MW-439D	SR	6/2/2015	12:15	17.88	955.58	937.70	
MW-440D	SR	6/2/2015	12:18	2.05	936.70	934.65	
MW-441D	SR	6/2/2015	11:28	35.84	974.38	938.54	
MW-442D	SR	6/2/2015	11:10	37.10	975.68	938.58	
MW-443D	SR	6/2/2015	13:05	41.16	979.72	938.56	
MW-444D	SR	6/2/2015	12:55	6.80	934.18	927.38	
MW-447D	SR	6/2/2015	11:50	40.62	965.84	925.22	
MW-448D	SR	6/2/2015	12:58	11.37	935.38	924.01	
MW-449D	SR	6/2/2015	11:46	35.21	970.44	935.23	
MW-450D	SR	6/2/2015	12:32	17.92	910.51	892.59	
MW-451D	SR	6/2/2015	11:34	29.32	967.32	938.00	
MW-453D	SR	6/2/2015	11:53	0.00	923.25	923.25	artesian

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
BEDROCK MONITORING WELLS
JULY 2015
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
CSX-18D	SR	7/31/2015	13:30	24.46	964.96	940.50	
MW-101D	SR	7/31/2015	14:37	40.60	988.24	947.64	
MW-204D	SR	7/31/2015	14:35	30.63	994.26	963.63	
MW-301D	SR	7/31/2015	13:40	28.43	970.44	942.01	
MW-401D	SR	7/31/2015	17:40	32.82	974.57	941.75	
MW-402D	SR	7/31/2015	14:05	22.17	966.36	944.19	
MW-403D	SR	7/31/2015	13:55	32.86	977.36	944.50	
MW-404D	SR	7/31/2015	13:45	39.72	988.83	949.11	
MW-405D	SR	7/31/2015	14:19	35.30	982.45	947.15	
MW-407D	SR	7/31/2015	17:28	15.10	956.24	941.14	
MW-408D	SR	7/31/2015	17:21	15.97	957.07	941.10	
MW-409D	SR	7/31/2015	17:03	7.37	942.49	935.12	
MW-410D	SR	7/31/2015	17:15	10.45	947.63	937.18	
MW-411D	SR	7/31/2015	16:15	25.98	943.43	917.45	
MW-412D	SR	7/31/2015	16:10	24.17	949.64	925.47	
MW-413D	SR	7/31/2015	13:10	27.65	970.13	942.48	
MW-414D	SR	7/31/2015	13:05	29.42	971.91	942.49	
MW-416D	SR	7/31/2015	13:25	23.70	965.84	942.14	
MW-417D	SR	7/31/2015	13:35	22.80	964.96	942.16	
MW-418D	SR	7/31/2015	13:20	22.86	965.06	942.20	
MW-419D	SR	7/31/2015	16:45	26.30	967.40	941.10	
MW-419M	MB	7/31/2015	16:50	25.45	967.50	942.05	
MW-420D	SR	7/31/2015	16:45	23.60	965.26	941.66	
MW-420M	MB	7/31/2015	16:43	22.82	964.85	942.03	
MW-421D	SR	7/31/2015	16:55	16.65	958.50	941.85	
MW-422D	SR	7/31/2015	14:25	35.78	980.98	945.20	
MW-424D	SR	7/31/2015	14:27	34.62	979.74	945.12	
MW-432D	SR	7/31/2015	15:00	32.21	974.50	942.29	
MW-432M	MB	7/31/2015	15:03	19.05	974.90	955.85	
MW-433D	SR	7/31/2015	15:45	28.61	970.43	941.82	
MW-434D	SR	7/31/2015	15:50	23.55	965.33	941.78	
MW-435D	SR	7/31/2015	15:54	14.40	955.91	941.51	
MW-436D	SR	7/31/2015	15:42	20.65	962.37	941.72	
MW-437D	SR	7/31/2015	15:39	8.85	948.38	939.53	
MW-438D	SR	7/31/2015	15:15	31.78	972.59	940.81	
MW-439D	SR	7/31/2015	15:35	14.16	955.58	941.42	
MW-440D	SR	7/31/2015	15:37		936.70		flowing artesian
MW-441D	SR	7/31/2015	15:05	32.54	974.38	941.84	
MW-442D	SR	7/31/2015	14:43	33.78	975.68	941.90	
MW-443D	SR	7/31/2015	16:35	37.97	979.72	941.75	
MW-444D	SR	7/31/2015	15:55	4.10	934.18	930.08	
MW-447D	SR	7/31/2015	15:26	38.89	965.84	926.95	
MW-448D	SR	7/31/2015	16:28	9.55	935.38	925.83	
MW-449D	SR	7/31/2015	15:23	32.40	970.44	938.04	
MW-450D	SR	7/31/2015	16:05	14.95	910.51	895.56	
MW-451D	SR	7/31/2015	15:10	26.07	967.32	941.25	
MW-453D	SR	7/31/2015	15:30		923.25		flowing artesian

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
OVERBURDEN MONITORING WELLS
AUGUST 2015
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
HA-1	S2	8/19/2015	12:30	10.99	982.24	971.25	
HA-2	S2	8/19/2015	12:20	5.70	982.70	977.00	
HA-3	S2	8/19/2015	12:12	10.95	982.61	971.66	
HA-4	S1	8/19/2015	12:14	4.72	981.14	976.42	
HA-5	WT	8/19/2015	12:25	5.53	982.94	977.41	
IF-2	WT/S1	8/19/2015	9:03	2.38	978.64	976.26	
IF-3	WT/S1	8/19/2015	9:06	2.46	978.61	976.15	
MW-130	S1	8/19/2015	8:15	5.04	986.02	980.98	
MW-131	S1	8/19/2015	8:35	5.23	985.72	980.49	
MW-132	WT/S1	8/19/2015	8:55	4.42	984.07	979.65	
MW-133	S1	8/19/2015	9:05	4.83	983.13	978.30	
MW-134	WT/S1	8/19/2015	9:08	3.25	979.78	976.53	
MW-135	WT/S1	8/19/2015	9:15	3.82	984.86	981.04	
MW-136	WT/S1	8/19/2015	0:00		985.67		Covered
MW-137	S2	8/19/2015	11:59	8.02	982.24	974.22	
MW-138	S1	8/19/2015	11:58	3.05	982.24	979.19	
MW-501	S2	8/19/2015	0:00		988.73		Can't find
MW-502	S1/S2	8/19/2015	11:09	5.51	990.20	984.69	
MW-503	S1	8/19/2015	11:07	7.82	994.49	986.67	
MW-504R	S1	8/19/2015	9:30	3.28	984.42	981.14	
MW-505	S1/S2	8/19/2015	10:34	6.22	989.28	983.06	
MW-506	S1	8/19/2015	12:30	4.74	988.96	984.22	
MW-507	S1	8/19/2015	9:45	6.32	988.96	982.64	
MW-508	S2	8/19/2015	11:44	11.89	989.07	977.18	
MW-509	S2	8/19/2015	11:16	8.56	985.40	976.84	
MW-510R	S2	8/19/2015	9:26	7.02	981.51	974.49	
MW-511	S2	8/19/2015	9:15	6.35	980.06	973.71	
MW-512	WT	8/19/2015	10:30	3.80	979.15	975.35	
MW-513	S2	8/19/2015	14:02	10.20	974.84	964.64	
MW-514	S2	8/19/2015	14:27	0.75	968.31	967.56	
MW-515	S2	8/19/2015	13:48	4.52	970.44	965.92	
MW-516	S2	8/19/2015	10:28	8.94	978.83	969.89	
MW-601	WT	8/19/2015	10:26	2.81	979.47	976.66	
MW-602	WT	8/19/2015	12:38	4.55	981.94	977.39	
MW-603	WT	8/19/2015	11:38	6.09	984.42	978.33	
MW-604	S1	8/19/2015	11:03	3.52	981.77	978.25	
MW-605	S2	8/19/2015	10:18	8.33	978.62	970.29	
MW-606	S1	8/19/2015	11:49	4.81	982.87	978.06	
MW-607	WT/S1	8/19/2015	10:14	2.34	979.87	977.53	
MW-700	S1	8/19/2015	9:32	6.35	988.77	982.42	
MW-701	S1	8/19/2015	12:35	6.15	988.92	982.77	
MW-702	S1	8/19/2015	12:26	0.45	989.24	988.79	
MW-703R	S1	8/19/2015	12:08	3.76	988.84	985.08	
MW-705	S1	8/19/2015	11:46	12.01	989.17	977.16	
MW-706	WT	8/19/2015	11:42	6.24	987.67	981.43	
MW-707	S1	8/19/2015	9:55	6.26	989.06	982.80	
MW-708	S2	8/19/2015	10:02	8.81	985.24	976.43	
MW-709	S1	8/19/2015	9:58	7.87	989.10	981.23	
MW-710	WT/S1	8/19/2015	9:12	4.42	985.15	980.73	
MW-711	S1	8/19/2015	12:54	8.63	989.16	980.53	
MW-712	WT/S1	8/19/2015	9:24	2.81	982.31	979.50	
MW-715	S1	8/19/2015	9:43	5.26	982.30	977.04	
MW-716	S2	8/19/2015	9:40	10.10	982.31	972.21	
MW-717	S2	8/19/2015	8:51	6.71	979.82	973.11	
MW-718	WT/S1	8/19/2015	9:00	4.30	980.27	975.97	
MW-719	S2	8/19/2015	8:55	6.70	979.01	972.31	
MW-720	S1	8/19/2015	14:12	7.15	979.29	972.14	
MW-721	S2	8/19/2015	11:15	8.41	984.81	976.40	
MW-722R	WT	8/19/2015	11:27	3.95	987.71	983.76	

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
OVERBURDEN MONITORING WELLS
AUGUST 2015
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
MW-723	WT	8/19/2015	0:00		984.75		Abandoned
MW-724	WT/S1	8/19/2015	14:12		979.15	DRY	Dry
MW-725	S2	8/19/2015	14:18	6.73	978.46	971.73	
MW-726	WT/S1	8/19/2015	14:17	3.52	978.70	975.18	
MW-727	S2	8/19/2015	14:15	6.06	977.84	971.78	
MW-728	WT/S1	8/19/2015	14:14	3.31	978.07	974.76	
MW-729	WT/S1	8/19/2015	8:44	4.10	977.20	973.10	
MW-730	S1	8/19/2015	13:00	3.95	982.08	978.13	
MW-731	S2	8/19/2015	8:42	5.53	977.19	971.66	
MW-732	S1	8/19/2015	10:20	2.28	978.89	976.61	
MW-733	S2	8/19/2015	14:06	7.40	978.98	971.58	
MW-734	WT/S1	8/19/2015	14:07	7.23	979.14	971.91	
MW-735	S2	8/19/2015	10:14	6.64	985.47	978.83	
MW-736	S2	8/19/2015	13:15	6.37	979.45	973.08	
MW-737	S2	8/19/2015	9:10	7.07	978.96	971.89	
MW-738	WT	8/19/2015	11:40	3.56	987.75	984.19	
MW-739	WT	8/19/2015	11:48	4.60	989.05	984.45	
MW-740	S2	8/19/2015	13:19	3.35	973.82	970.47	
MW-741	S2	8/19/2015	13:36	8.51	976.19	967.68	
MW-742	S2	8/19/2015	12:52	9.36	980.17	970.81	
MW-743	S2	8/19/2015	14:21	5.92	976.89	970.97	
MW-744	WT	8/19/2015	11:43	6.44	987.55	981.11	
MW-745	S2	8/19/2015	9:17	7.60	982.49	974.89	
MW-746	S2	8/19/2015	11:37	9.70	987.64	977.94	
MW-747R	S1	8/19/2015	11:25	7.88	988.14	980.26	
MW-748	S1	8/19/2015	9:28	5.00	981.98	976.98	
MW-749	WT	8/19/2015	9:30	1.85	981.94	980.09	
MW-750	WT	8/19/2015	8:30	4.56	985.50	980.94	
MW-753	WT	8/19/2015	8:43	3.11	985.37	982.26	
MW-754	WT	8/19/2015	8:48	4.78	986.08	981.30	
MW-757	WT	8/19/2015	12:18	2.36	988.95	986.59	
MW-758	S2	8/19/2015	13:05	3.55	982.34	978.79	
MW-759	S2	8/19/2015	13:21	7.08	976.87	969.79	
MW-760	WT	8/19/2015	10:50	5.37	984.49	979.12	
MW-764	WT/S1	8/19/2015	10:54	4.53	982.78	978.25	
MW-765	WT	8/19/2015	12:10	4.07	988.96	984.89	
MW-766	WT	8/19/2015	0:00		987.15		Covered
MW-767	WT	8/19/2015	9:40	6.31	988.92	982.61	
MW-768	WT	8/19/2015	0:00		985.64		Abandoned
MW-770	S1/S2	8/19/2015	11:20	8.59	992.62	984.03	
MW-771	WT	8/19/2015	11:22	4.94	992.54	987.60	
MW-772R	WT	8/19/2015	9:53	6.45			
MW-773	S1	8/19/2015	11:55	4.26	989.24	984.98	
MW-774	WT	8/19/2015	11:56	2.79	989.06	986.27	
MW-775	WT	8/19/2015	13:25	3.95	976.91	972.96	
MW-776	WT/S1	8/19/2015	13:17	3.11	974.01	970.90	
MW-777	S1	8/19/2015	8:20	6.88	985.65	978.77	
MW-778	S2	8/19/2015	10:52	6.51	982.78	976.27	
MW-779	S2	8/19/2015	10:24	9.95	979.40	969.45	
MW-780R	WT/S1	8/19/2015	10:25	4.83	984.63	979.80	
MW-781	WT	8/19/2015	10:02	4.63	982.06	977.43	
MW-782	WT/S1	8/19/2015	9:13	4.74	980.19	975.45	
MW-784	WT	8/19/2015	8:49	4.40	980.09	975.69	
MW-786	S2	8/19/2015	10:22	8.83	979.35	970.52	
MW-787	WT	8/19/2015	9:38	7.13	982.12	974.99	
MW-788	WT	8/19/2015	11:31	6.56	986.90	980.34	
MW-789	WT/S1	8/19/2015	8:50	3.57	982.43	978.86	
MW-790	WT	8/19/2015	12:13	3.95	988.92	984.97	
MW-792	S2	8/19/2015	12:14	11.43	989.02	977.59	

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
OVERBURDEN MONITORING WELLS
AUGUST 2015
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
MW-793	WT/S1	8/19/2015	0:00		982.03		Covered
MW-794	WT/S1	8/19/2015	10:00	5.38	982.07	976.69	
MW-795	WT	8/19/2015	0:00		982.12		Product
MW-796	WT/S1	8/19/2015	12:50	3.12	980.25	977.13	
MW-797	S1	8/19/2015	0:00		985.68		Abandoned
MW-798	S2	8/19/2015	0:00		982.19		Product
MW-799	S2	8/19/2015	10:05	8.83	982.09	973.26	
MW-800	S2	8/19/2015	13:28	8.42	978.99	970.57	
MW-801	S1	8/19/2015	0:00		987.12		Covered
MW-802	WT	8/19/2015	12:38	4.31	988.71	984.40	
MW-804R	S1	8/19/2015	12:37	11.41	988.77	977.36	
MW-805	WT	8/19/2015	8:25	4.75	985.92	981.17	
MW-806	WT	8/19/2015	0:00		982.15		Covered
MW-807	S2	8/19/2015	9:46	10.20	982.08	971.88	
MW-808	S2	8/19/2015	9:57	9.58	982.20	972.62	
MW-809	S1/S2	8/19/2015	9:53	7.33	982.16	974.83	
MW-810	WT	8/19/2015	12:56	7.96	980.48	972.52	
MW-811	WT	8/19/2015	9:19	4.25	982.88	978.63	
MW-812	S2	8/19/2015	13:55	5.90	969.95	964.05	
MW-813	S2	8/19/2015	13:51	6.48	975.43	968.95	
MW-814	WT/S1	8/19/2015	14:33	6.62	976.17	969.55	
MW-815	WT/S1	8/19/2015	9:50	7.01	979.30	972.29	
N001	WT	8/19/2015	0:00		985.43		Covered
N002	WT	8/19/2015	12:50	5.20	985.20	980.00	
N003	WT	8/19/2015	0:00		985.28		Covered
N1	WT	8/19/2015	13:02	5.60	989.43	983.83	
N10	WT	8/19/2015	0:00		982.92		Covered
N11	WT	8/19/2015	10:44	2.58	981.63	979.05	
N12	WT	8/19/2015	10:46	9.20	984.82	975.62	
N13	WT	8/19/2015	10:42	4.35	982.21	977.86	
N15	WT	8/19/2015	10:40	4.57	982.47	977.90	
N16	WT	8/19/2015	10:32	2.80	982.04	979.24	
N17	WT	8/19/2015	10:34	3.60	982.23	978.63	
N2	WT	8/19/2015	0:00		989.37		Covered
N23	WT	8/19/2015	10:36	6.20	980.57	974.37	
N25	WT	8/19/2015	12:44	4.20	985.33	981.13	
N26	WT	8/19/2015	12:46	4.60	983.29	978.69	
N57	WT	8/19/2015	10:48	7.60	982.50	974.90	
N62 (E2)	WT	8/19/2015	10:38	4.95			
N63	WT	8/19/2015	13:28	7.30	979.19	971.89	
N64	WT	8/19/2015	13:30	7.25	978.34	971.09	
N7	WT	8/19/2015	0:00		985.19		Covered
N9	WT	8/19/2015	12:48	7.03	985.38	978.35	
PZ-1	WT	8/19/2015	12:31	3.61	978.64	975.03	
PZ-10	WT	8/19/2015	15:10	6.41	983.23	976.82	
PZ-11	WT	8/19/2015	0:00		983.34		Covered
PZ-12	WT	8/19/2015	9:25	3.83	982.95	979.12	
PZ-13	WT	8/19/2015	9:24	3.60	983.61	980.01	
PZ-14	WT	8/19/2015	9:57	3.85	984.21	980.36	
PZ-15	WT	8/19/2015	10:05	5.31	985.51	980.20	
PZ-16R	WT	8/19/2015	9:59	4.95	985.16	980.21	
PZ-17	WT	8/19/2015	9:16	2.95	983.49	980.54	
PZ-18	WT	8/19/2015	14:55	4.22	985.28	981.06	
PZ-19	WT	8/19/2015	11:47	6.24	983.58	977.34	
PZ-2	WT	8/19/2015	0:00		978.12		Covered
PZ-20	WT	8/19/2015	11:35	5.56	982.28	976.72	
PZ-21	WT	8/19/2015	12:06	2.72	989.15	986.43	
PZ-22R	WT	8/19/2015	12:40	6.14	988.78	982.64	
PZ-23	WT	8/19/2015	12:52	7.55	989.04	981.49	

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
OVERBURDEN MONITORING WELLS
AUGUST 2015
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
PZ-24	WT	8/19/2015	11:53	2.83	988.99	986.16	
PZ-25	WT	8/19/2015	12:01	2.95	988.92	985.97	
PZ-26	WT	8/19/2015	0:00		989.05		Product
PZ-28	WT	8/19/2015	12:03	3.18	989.02	985.84	
PZ-29R	WT	8/19/2015	10:35	3.68	988.22	984.54	
PZ-3	WT	8/19/2015	9:06	4.13	981.55	977.42	
PZ-30	WT	8/19/2015	0:00		985.25		Covered
PZ-31	WT	8/19/2015	11:50	4.35	988.98	984.63	
PZ-4	WT	8/19/2015	12:15	2.86	981.32	978.46	
PZ-5	WT	8/19/2015	10:16	2.35	979.59	977.24	
PZ-6	WT	8/19/2015	12:39	5.19	981.83	976.64	
PZ-7	WT	8/19/2015	12:05	4.67	982.66	977.99	
PZ-8	WT	8/19/2015	0:00		983.11		Covered
PZ-9	WT	8/19/2015	12:35	4.92	982.63	977.71	
VAW-115R	WT/S1	8/19/2015	8:40	4.39	985.24	980.85	
VBW-111	WT/S1	8/19/2015	9:02	4.75	984.26	979.51	
VBW-112	S1	8/19/2015	8:58	7.48	985.44	977.96	
VBW-113	WT	8/19/2015	9:00	4.89	985.87	980.98	
VCW-110	WT/S1	8/19/2015	0:00		985.84		Covered
VDW-108	S2	8/19/2015	11:37	10.89	983.76	972.87	
VEW-105	WT	8/19/2015	0:00		988.08		Covered
VEW-106	WT	8/19/2015	11:38	4.09	987.79	983.70	
VEW-114R	WT	8/19/2015	12:58	4.16	988.86	984.70	
VFW-104	WT/S2	8/19/2015	8:46	4.31	978.74	974.43	
VPW-101	S1	8/19/2015	8:10	4.05	986.81	982.76	
VPW-102	S2	8/19/2015	13:57	3.59	966.75	963.16	
VPW-103	WT/S1	8/19/2015	9:18	4.65	982.05	977.40	

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
BEDROCK MONITORING WELLS
AUGUST 2015
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
CSX-18D	SR	8/20/2015	9:38	26.37	964.96	938.59	
MW-101D	SR	8/20/2015	11:10	43.35	988.24	944.89	
MW-204D	SR	8/20/2015	11:13	32.91	994.26	961.35	
MW-301D	SR	8/20/2015	9:55	32.35	970.44	938.09	
MW-401D	SR	8/20/2015	11:32	36.15	974.57	938.42	
MW-402D	SR	8/20/2015	13:38	25.67	966.36	940.69	
MW-403D	SR	8/20/2015	10:05	33.69	977.36	943.67	
MW-404D	SR	8/20/2015	10:55	42.52	988.83	946.31	
MW-405D	SR	8/20/2015	13:55	38.12	982.45	944.33	
MW-407D	SR	8/20/2015	12:55	18.59	956.24	937.65	
MW-408D	SR	8/20/2015	13:05	19.44	957.07	937.63	
MW-409D	SR	8/20/2015	12:30	10.17	942.49	932.32	
MW-410D	SR	8/20/2015	12:45	13.62	947.63	934.01	
MW-411D	SR	8/20/2015	12:08	26.76	943.43	916.67	
MW-412D	SR	8/20/2015	11:55	26.18	949.64	923.46	
MW-413D	SR	8/20/2015	9:47	31.91	970.13	938.22	
MW-414D	SR	8/20/2015	9:50	33.62	971.91	938.29	
MW-416D	SR	8/20/2015	9:34	27.63	965.84	938.21	
MW-417D	SR	8/20/2015	9:44	26.72	964.96	938.24	
MW-418D	SR	8/20/2015	9:30	26.81	965.06	938.25	
MW-419D	SR	8/20/2015	13:25	29.24	967.40	938.16	
MW-419M	MB	8/20/2015	13:28	29.26	967.50	938.24	
MW-420D	SR	8/20/2015	13:18	27.05	965.26	938.21	
MW-420M	MB	8/20/2015	13:21	26.40	964.85	938.45	
MW-421D	SR	8/20/2015	13:33	20.26	958.50	938.24	
MW-422D	SR	8/20/2015	14:15	38.92	980.98	942.06	
MW-424D	SR	8/20/2015	13:58	37.80	979.74	941.94	
MW-432D	SR	8/20/2015	10:52	36.77	974.50	937.73	
MW-432M	MB	8/20/2015	10:53	20.52	974.90	954.38	
MW-433D	SR	8/20/2015	10:57	32.12	970.43	938.31	
MW-434D	SR	8/20/2015	11:02	27.08	965.33	938.25	
MW-435D	SR	8/20/2015	11:07	17.92	955.91	937.99	
MW-436D	SR	8/20/2015	11:10	24.27	962.37	938.10	
MW-437D	SR	8/20/2015	11:22	12.27	948.38	936.11	
MW-438D	SR	8/20/2015	12:17	34.33	972.59	938.26	
MW-439D	SR	8/20/2015	0:00		955.58		covered by car
MW-440D	SR	8/20/2015	11:20	1.95	936.70	934.75	
MW-441D	SR	8/20/2015	12:07	36.11	974.38	938.27	
MW-442D	SR	8/20/2015	12:28	37.43	975.68	938.25	
MW-443D	SR	8/20/2015	12:24	41.44	979.72	938.28	
MW-444D	SR	8/20/2015	11:34	6.83	934.18	927.35	
MW-447D	SR	8/20/2015	11:52	40.64	965.84	925.20	
MW-448D	SR	8/20/2015	11:38	11.17	935.38	924.21	
MW-449D	SR	8/20/2015	11:59	35.32	970.44	935.12	
MW-450D	SR	8/20/2015	11:28	17.92	910.51	892.59	
MW-451D	SR	8/20/2015	12:02	29.52	967.32	937.80	
MW-453D	SR	8/20/2015	0:00	0.00	923.25	923.25	artesian

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
TOP OF ROCK MONITORING WELLS
AUGUST 2015
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
CSX-22	TOR	8/20/2015	14:25	7.48	967.35	959.87	
MW-101S	TOR	8/20/2015	11:09	7.13	988.04	980.91	
MW-204S	TOR	8/20/2015	11:16	13.75	993.94	980.19	
MW-301S	TOR	8/20/2015	10:45	5.13	971.03	965.90	
MW-401S	TOR	8/20/2015	11:33	14.35	974.73	960.38	
MW-402S	TOR	8/20/2015	13:40	9.08	966.62	957.54	
MW-403S	TOR	8/20/2015	10:10	7.75	976.61	968.86	
MW-404S	TOR	8/20/2015	10:58	8.25	989.50	981.25	
MW-405S	TOR	8/20/2015	13:50	7.32	982.47	975.15	
MW-407S	TOR	8/20/2015	12:56	6.66	952.99	946.33	
MW-412S	TOR	8/20/2015	12:00	14.07	949.79	935.72	
MW-415S	TOR	8/20/2015	10:35	9.67	976.78	967.11	
MW-422S	TOR	8/20/2015	14:10	11.61	981.27	969.66	
MW-423S	TOR	8/20/2015	14:05	29.43	978.96	949.53	
MW-424S	TOR	8/20/2015	14:00		980.06		not measured
MW-425S	TOR	8/20/2015	10:25	9.13	976.09	966.96	
MW-426S	TOR	8/20/2015	13:00	3.37	967.24	963.87	
MW-427S	TOR	8/20/2015	9:55		974.54		bolts stuck, could not open
MW-428S	TOR	8/20/2015	12:43	12.03	985.43	973.40	
MW-429S	TOR	8/20/2015	12:45	8.74	985.08	976.34	
MW-430S	TOR	8/20/2015	12:55	11.04	984.87	973.83	
MW-431S	TOR	8/20/2015	12:36	8.35	982.46	974.11	
MW-445S	TOR	8/20/2015	10:20	19.77	976.07	956.30	
MW-446SR	TOR	8/20/2015	10:16	8.32	972.04	963.72	
MW-452S	TOR	8/20/2015	12:48	12.68	989.13	976.45	
MW-454S	TOR	8/20/2015	13:15	6.55	969.38	962.83	
MW-455S	TOR	8/20/2015	13:10	7.85	976.65	968.80	

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
BEDROCK MONITORING WELLS
SEPTEMBER 2015
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
CSX-18D	SR	9/11/2015	13:45	27.02	964.96	937.94	
MW-101D	SR	9/11/2015	14:06	44.01	988.24	944.23	
MW-204D	SR	9/11/2015	14:11	33.62	994.26	960.64	
MW-301D	SR	9/11/2015	13:26	32.87	970.44	937.57	
MW-401D	SR	9/11/2015	13:55	36.77	974.57	937.80	
MW-402D	SR	9/11/2015	13:19	26.27	966.36	940.09	
MW-403D	SR	9/11/2015	13:10	34.56	977.36	942.80	
MW-404D	SR	9/11/2015	14:00	43.17	988.83	945.66	
MW-405D	SR	9/11/2015	12:40	38.71	982.45	943.74	
MW-407D	SR	9/11/2015	14:45	19.42	956.24	936.82	
MW-408D	SR	9/11/2015	14:47	20.28	957.07	936.79	
MW-409D	SR	9/11/2015	14:50	10.95	942.49	931.54	
MW-410D	SR	9/11/2015	14:55	14.35	947.63	933.28	
MW-411D	SR	9/11/2015	15:10	27.20	943.43	916.23	
MW-412D	SR	9/11/2015	15:00	27.00	949.64	922.64	
MW-413D	SR	9/11/2015	13:23	32.53	970.13	937.60	
MW-414D	SR	9/11/2015	13:28	34.23	971.91	937.68	
MW-416D	SR	9/11/2015	13:50	28.26	965.84	937.58	
MW-417D	SR	9/11/2015	13:42	27.35	964.96	937.61	
MW-418D	SR	9/11/2015	13:40	27.45	965.06	937.61	
MW-419D	SR	9/11/2015	14:40	30.00	967.40	937.40	
MW-419M	MB	9/11/2015	14:41	29.94	967.50	937.56	
MW-420D	SR	9/11/2015	14:35	27.75	965.26	937.51	
MW-420M	MB	9/11/2015	13:34	27.05	964.85	937.80	
MW-421D	SR	9/11/2015	14:36	20.94	958.50	937.56	
MW-422D	SR	9/11/2015	12:43	39.56	980.98	941.42	
MW-424D	SR	9/11/2015	13:05	38.42	979.74	941.32	
MW-432D	SR	9/11/2015	14:25	37.53	974.50	936.97	
MW-432M	MB	9/11/2015	14:30	21.63	974.90	953.27	
MW-433D	SR	9/11/2015	16:05	32.95	970.43	937.48	
MW-434D	SR	9/11/2015	16:10	27.85	965.33	937.48	
MW-435D	SR	9/11/2015	16:12	18.80	955.91	937.11	
MW-436D	SR	9/11/2015	16:01	25.12	962.37	937.25	
MW-437D	SR	9/11/2015	15:58	13.10	948.38	935.28	
MW-438D	SR	9/11/2015	16:29	35.12	972.59	937.47	
MW-439D	SR	9/11/2015	0:00		955.58		blocked by car
MW-440D	SR	9/11/2015	15:55	3.72	936.70	932.98	
MW-441D	SR	9/11/2015	16:20	36.86	974.38	937.52	
MW-442D	SR	9/11/2015	14:20	38.16	975.68	937.52	
MW-443D	SR	9/11/2015	17:05	42.20	979.72	937.52	
MW-444D	SR	9/11/2015	15:42	7.42	934.18	926.76	
MW-447D	SR	9/11/2015	16:37	41.11	965.84	924.73	
MW-448D	SR	9/11/2015	15:48	11.62	935.38	923.76	
MW-449D	SR	9/11/2015	16:14	35.99	970.44	934.45	
MW-450D	SR	9/11/2015	15:24	18.05	910.51	892.46	
MW-451D	SR	9/11/2015	16:22	30.30	967.32	937.02	
MW-453D	SR	9/11/2015	16:40		923.25		artesian

Attachment B
Data Usability Summary Reports

Data Usability Summary Report (DUSR)
Vandalia 2Q15 - 79022-318
Analytical Laboratory: TestAmerica, Inc. – Miamisburg, OH
Sample Delivery Group # 240-494271, -50649, -50713, -50868, -50969, -51007

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

- USEPA National Functional Guidelines for Organic Data Review (EPA 540-R-08-01) and/or
  USEPA National Functional Guidelines for Low Concentration Organic Data Review (EPA 540-R-00-006)

and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID	Sample ID	Sample ID
4226-041515-0001	4226-051315-0001	4418-051915-0001
G006-041515-1210	4226-051315-0002	4226-051915-0002
B005-041515-1015	W731-051315-0905	4226-051915-0003
B006-041515-1020	W717-051315-1035	420M-051915-0920
C001-041515-1030	W607-051315-1205	420D-051915-1040
D001-041515-1045	W810-051315-1355	418D-051915-1305
E001-041515-1055	4226-051815-0001	416D-051915-1435
E002-041515-1100	425S-051815-1355	814-051915-1135
F001-041515-1140	800-051815-1540	815-051915-1245
G004-041515-1200	4226-051815-0002	4226-052015-0001
4226-051215-0001	4226-051815-0003	4226-052015-0002
4226-051215-0002	W725-051815-1125	417D-052015-1005
4226-051215-0003	W743-051815-1225	SW01-052015-1045
4226-051215-0004	413D-051815-1420	SW04-052015-1100
W730-051215-0905	4184-051815-0001	4184-052015-0001
W776-051215-1040	4184-051815-0002	4184-052015-0002
W740-051215-1225	741-051815-1140	605-052015-0940
W775-051215-1425	4226-051915-0001	732-052015-1225
W759-051215-1545	806-051915-1510	

Project Samples were analyzed according to the following analytical methods:

	Parameter	Analytical Method	Holding Time Criteria
1.	VOCs	EPA 8260B/624	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed.

- Holding Times
- Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- Continuing Calibration Procedures
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Duplicate Sample Analysis
- Sample Data Reporting Format
- Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. Nc Qualification of the data is recommended.

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the continuing calibration verification (CCV) standards for the following target compound(s) exhibited a percent drift (%D) greater than the acceptance criteria of 25% and/or a RRF less than 0.05:

Inst.	Date / Time	Target Analyte(s)	%D	RRF	Affected Sample(s)	Corrective Action
A3UX11	04/22/15 13:06	Vinyl acetate	62.50	0.3538	All samples from -50649	See Action #1 Below
	5/18/2015 14:10	Vinyl acetate	75.90	0.3831		See Action #1 Below
		trans-1,4-Dichloro-4-butene	59.50	0.1094		See Action #1 Below
	5/19/2015 9:19	Vinyl acetate	65.10	0.3594		See Action #1 Below
		trans-1,4-Dichloro-4-butene	50.70	0.1331		See Action #1 Below

Action #1
Positive results are qualified "J", estimated and non-detected analytes as "UJ", estimated detection limit.

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for metals and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters), or 5 times (5X) the amount for other target compounds. Target compounds were not detected in associated blank samples (trip, equipment, method) prepared and analyzed concurrently with the project samples, with the following exception(s):

Blank	Target Analyte(s)	Concn.	Affected Sample(s)	Qualifiers
MB 240-181444/5 MB (Batch #181444)	Methylene chloride	0.352 ug/L	None, all samples ND.	3.5 ug/L
4226-051215-0003 FB	Acetone	1.9 ug/L	4226-051215-0003	19.0 ug/L
	2-Butanone (MEK)	0.8 ug/L	W776-051215-1040	3.9 ug/L
4226-051215-0004 EB (5/12/2015)	Acetone	1.3 ug/L	4226-051215-0004	13.0 ug/L
MB 240-181514/6 MB (Batch #181444)	Methylene chloride	0.3 ug/L	None, all samples ND	3.3 ug/L
MB 240-182676/5 MB (Batch # 182676)	Methylene chloride	0.4 ug/L	None, all samples ND	4.4 ug/L
4226-051815-0003 EB (5/18/2015)	2-Butanone (MEK)	0.6 ug/L	4184-051815-0001 4184-051815-0002	3.1 ug/L

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria, with the following exception(s):

LCS ID / Project Sample MS	Type	Target Analyte(s)	%R Criteria	%R	%RPD	Affected Sample(s)
LCS 240-181235/4	LCS	Carbon disulfide	62 - 142	144		4226-051215-0001
LCS (Batch #181235)	LCS	cis-1,3-Dichloropropene	61 - 120	123		4226-051215-0002
	LCS	4-Methyl-2-pentanone (MIBK)	63 - 128	131		4226-051215-0003
	LCS	Trichloroethene	76 - 120	121		4226-051215-0004
						W776-051215-1040
						W740-051215-1225
						W775-051215-1425
						W759-051215-1545
LCS 240-182173/4	LCS	Dichlorodifluoromethane	19 - 129	142		None, Samples ND

Action:

If the LCS %R is greater than the upper acceptance limit, associated target analyte positive results are qualified "J" and non-detects should not be qualified. If the LCS %R is less than the lower acceptance limit associated target analyte positive results are qualified "J" and non-detects are qualified "R". If the MS/MSD is from a project sample and the %R greater than the upper acceptance limit, associated target analyte positive results are qualified "J" and non-detects should not be qualified. If the MS/MSD %R is >10%, but less than the lower acceptance limit, associated analyte positive results are qualified "J" and non-detects are qualified "UJ". If the MS/MSD %R is less than 10% associated target analyte positive results are qualified "J" and non-detects are qualified "R". MS/MSD qualifiers are only applied to affected samples of the same matrix. If the MS/MSD is a LAB sample do not qualify project samples.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of +100% and – 50% of the corresponding CCV standard. No qualification of the data is recommended.

Field Duplicate Sample Analysis

The overall variability attributable to the sampling procedure, sample matrix, and laboratory procedures, was evaluated by assessing the relative percent difference (RPD) data from field duplicate samples. All calculated RPD values were within matrix specific data quality objectives, with the exception of results qualified "J" as shown in the table(s) below:

Target Analyte(s)	Original Sample ID. 605-052015-0940	FD Sample ID. 4184-052015-0001	%RPD	Flag Original and FD sample results with:
cis-1,2-Dichloroethene	0.88 J ug/L	0.91 J ug/L	3%	
Vinyl chloride	4 ug/L	4.1 ug/L	2%	
Trichloroethene	1 ug/L	0.92 J ug/L	8%	

Target Analyte(s)	Original Sample ID. 420M-051915-0920	FD Sample ID. 4226-051915-0002	%RPD	Flag Original and FD sample results with:
Ethylbenzene	17 U ug/L	17 U ug/L	0%	
Styrene	17 U ug/L	17 U ug/L	0%	
cis-1,3-Dichloropropene	17 U ug/L	17 U ug/L	0%	
trans-1,3-Dichloropropene	17 U ug/L	17 U ug/L	0%	
1,4-Dichlorobenzene	17 U ug/L	17 U ug/L	0%	
1,2-Dibromoethane (Ethylene Dibromide)	17 U ug/L	17 U ug/L	0%	
1,2-Dichloroethane	17 U ug/L	17 U ug/L	0%	
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	170 U ug/L	170 U ug/L	0%	
Methyl cyclohexane	17 U ug/L	17 U ug/L	0%	
Toluene	17 U ug/L	17 U ug/L	0%	
Chlorobenzene	17 U ug/L	17 U ug/L	0%	
Cyclohexane	17 U ug/L	17 U ug/L	0%	
1,2,4-Trichlorobenzene	17 U ug/L	17 U ug/L	0%	
Dibromochloromethane	17 U ug/L	17 U ug/L	0%	
Tetrachloroethene	17 U ug/L	17 U ug/L	0%	
Xylene (total)	33 U ug/L	33 U ug/L	0%	
cis-1,2-Dichloroethene	550 ug/L	560 ug/L	2%	
trans-1,2-Dichloroethene	6.4 J ug/L	6.9 J ug/L	8%	
Methyl Tert Butyl Ether	17 U ug/L	17 U ug/L	0%	
1,3-Dichlorobenzene	17 U ug/L	17 U ug/L	0%	
Carbon tetrachloride	17 U ug/L	17 U ug/L	0%	
2-Hexanone	170 U ug/L	170 U ug/L	0%	
Acetone	170 U ug/L	170 U ug/L	0%	
Chloroform (Trichloromethane)	17 U ug/L	17 U ug/L	0%	
Benzene	17 U ug/L	17 U ug/L	0%	
1,1,1-Trichloroethane	17 U ug/L	17 U ug/L	0%	
Bromomethane (Methyl Bromide)	17 U ug/L	17 U ug/L	0%	
Chloromethane (Methyl Chloride)	17 U ug/L	17 U ug/L	0%	
Chloroethane	17 U ug/L	17 U ug/L	0%	
Vinyl chloride	17 ug/L	18 ug/L	6%	
Methylene chloride	17 U ug/L	17 U ug/L	0%	
Carbon disulfide	17 U ug/L	17 U ug/L	0%	
Bromoform	17 U ug/L	17 U ug/L	0%	
Bromodichloromethane	17 U ug/L	17 U ug/L	0%	
1,1-Dichloroethane	17 U ug/L	17 U ug/L	0%	
1,1-Dichloroethene	17 U ug/L	17 U ug/L	0%	
Trichlorofluoromethane (CFC-11)	17 U ug/L	17 U ug/L	0%	
Dichlorodifluoromethane (CFC-12)	17 U ug/L	17 U ug/L	0%	
Trifluorotrichloroethane (Freon 113)	17 U ug/L	17 U ug/L	0%	
1,2-Dichloropropane	17 U ug/L	17 U ug/L	0%	
2-Butanone (Methyl Ethyl Ketone)	170 U ug/L	170 U ug/L	0%	
1,1,2-Trichloroethane	17 U ug/L	17 U ug/L	0%	
Trichloroethene	440 ug/L	450 ug/L	2%	
Methyl acetate	170 U ug/L	170 U ug/L	0%	
1,1,2,2-Tetrachloroethane	17 U ug/L	17 U ug/L	0%	
1,2-Dichlorobenzene	17 U ug/L	17 U ug/L	0%	
1,2-Dibromo-3-chloropropane (DBCP)	33 U ug/L	33 U ug/L	0%	
Isopropylbenzene	17 U ug/L	17 U ug/L	0%	

Target Analyte(s)	Original Sample ID. W740-051215-1225	FD Sample ID. 4226-051215-0002	%RPD	Flag Original and FD sample results with:
cis-1,3-Dichloropropene	1 U ug/L	1 U ug/L	0%	
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	10 U ug/L	10 U ug/L	0%	
1,2-Dichloroethane	1 U ug/L	1 U ug/L	0%	
Dibromofluoromethane	1 U ug/L	1 U ug/L	0%	
Toluene-D8	1 U ug/L	1 U ug/L	0%	
Carbon disulfide	1 U ug/L	1 U ug/L	0%	
Trichloroethene	1 U ug/L	1 U ug/L	0%	

Action:
If the sample matrix is solid and the %RPD is greater than 50%, the original sample results are qualified "J". If the sample matrix is water or air and the %RPD is greater than 35%, the original sample results are qualified "J".

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within +/- 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

\\CLE\projects\79022\lab data\Validation\2015\DUSR\2Q\[240-49427-1_240-50649-1_240-50713-1_240-50868-1_240-50969-1_240-51007-1_MM Date: 6/19/2015

Data Usability Summary Report (DUSR)
MAHLE Vandalia
Analytical Laboratory: TestAmerica, Inc. - North Canton, OH
Sample Delivery Group # 240-55336-1

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

- USEPA National Functional Guidelines for Inorganic Data Review (EPA 540-R-04-004)
- USEPA National Functional Guidelines for Organic Data Review (EPA 540-R-08-01) and/or
  USEPA National Functional Guidelines for Low Concentration Organic Data Review (EPA 540-R-00-006)

and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID
425S-091015-1145
428S-091015-1310
424S-091015-1730
422S-091015-1000
423S-091015-1215
4184-091015-0001

Parameter	Analytical Method	Holding Time Criteria
VOCs	EPA 8260B	14 days
Chloride	EPA 300.0M	28 days
Fluoride	EPA 340.2M	28 days
Dissolved Gases in Water	RSK 175M	7 days
Alkalinity	SM 2320B	ASAP (14 days)
Ferrous Iron	SM 3500-Fe D	24 hours

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed.

- Holding Times
- Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- Initial Calibration Procedures
- Continuing Calibration Procedures
- Blank Sample Analysis
- System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Internal Standard Recoveries
- Target Compound Identification
- Sample Data Reporting Format
- Data Qualifiers
- Summary

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group, with the following exception(s):

Sample results should be qualified according to the actions specified in the following table:

Lab ID	Sample ID	Matrix	Action
240-55336-1	425S-091015-1145	W	See Action #1 Below
240-55336-2	428S-091015-1310	W	See Action #1 Below
240-55336-3	424S-091015-1730	W	See Action #1 Below
240-55336-4	422S-091015-1000	W	See Action #1 Below
240-55336-5	423S-091015-1215	W	See Action #1 Below

Ferrous Iron: Positive results are qualified "J", estimated and non-detected analytes as "UJ".

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP) with the following exception(s):

(QAPP) criteria. The following project sample data as specified in the following table were affected:

Target Analyte(s)	QAPP RL	Sample ID	Lab Package RL	Reason	Action
All VOCs	1x	422S-091015-1000	5000x	Dilution req'd by sample matrix	No further action
All VOCs	1x	424S-091015-1730	5000x	Dilution req'd by sample matrix	No further action
All VOCs	1x	425S-091015-1145	25x	Dilution req'd by sample matrix	No further action
All VOCs	1x	428S-091015-1310	6250x	Dilution req'd by sample matrix	No further action

Action:
No further action - another target analyte was detected within the sample matrix that required dilution therefore no further action is necessary.
Request Reanalysis - Contact lab to inquire on the reason for the higher reporting limit and whether the sample can be resampled within the maximum allowable holding time.

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for metals and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters), or 5 times (5X) the amount for other target compounds. Target analytes were not detected in associated blank samples (trip, equipment, method) prepared and analyzed concurrently with the project samples. No qualification of the data is recommended.

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria, with the following exception(s):

LCS ID / Project Sample	Type	Target Analyte(s)	%R	Affected Sample(s)	Positive Results	Non Detect (ND)
425S-091015-1145	MS	Sulfate	123	All Project Samples (-36)	J	
197339	MSD	Sulfate	124		J	

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of +100% and – 50% of the corresponding CCV standard. No qualification of the data is recommended.

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within +/- 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Date: 10/8/2015

Data Usability Summary Report (DUSR)
MAHLE Vandalia
Analytical Laboratory: TestAmerica, Inc. - North Canton, OH
Sample Delivery Group # 240558811

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

- USEPA National Functional Guidelines for Organic Data Review (EPA 540-R-08-01) and/or
  USEPA National Functional Guidelines for Low Concentration Organic Data Review (EPA 540-R-00-006)

and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID
SW01-092515-
SW04-092515-
4212-092515-0001

Project Samples were analyzed according to the following analytical methods:

	Parameter	Analytical Method	Holding Time Criteria
1.	VOCs	EPA 8260B/624	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed.

- Holding Times
- Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- Initial Calibration Procedures
- Continuing Calibration Procedures
- Blank Sample Analysis
- System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Internal Standard Recoveries
- Target Compound Identification
- Sample Data Reporting Format
- Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group. No qualification of the data is recommended.

Project-specific Reporting Limits

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP). No qualification of the data is recommended.

GC/MS Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. Nc Qualification of the data is recommended.

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for metals and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters), or 5 times (5X) the amount for other target compounds. Target analytes were not detected in associated blank samples (trip, equipment, method) prepared and analyzed concurrently with the project samples. No qualification of the data is recommended.

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria. No qualification of the data is recommended.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of +100% and – 50% of the corresponding CCV standard. No qualification of the data is recommended.

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within +/- 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Attachment C
Groundwater Migration Control System
Monthly Discharge Reports

VANDALIA-MIGRATION CONTROL
DAILY DISCHARGE REPORT- April 2015

DATE	AVERAGE INFLOW (GPM) BEDROCK/OVERBURDEN/SECOND SAND	DAILY DISCHARGE (GPD)
4/1/2015	29.4	42279
4/2/2015	26.8	38638
4/3/2015	28.3	40713
4/4/2015	27.0	38902
4/5/2015	25.1	36128
4/6/2015	24.4	35171
4/7/2015	27.4	39434
4/8/2015	27.4	39388
4/9/2015	32.5	46739
4/10/2015	30.9	44478
4/11/2015	34.3	49386
4/12/2015	28.3	40773
4/13/2015	31.8	45783
4/14/2015	31.9	45906
4/15/2015	31.0	44610
4/16/2015	31.1	44767
4/17/2015	30.7	44188
4/18/2015	30.3	43629
4/19/2015	29.5	42507
4/20/2015	31.3	45068
4/21/2015	29.4	42373
4/22/2015	24.1	34681
4/23/2015	17.9	25732
4/24/2015	27.1	39011
4/25/2015	31.4	45163
4/26/2015	28.6	41140
4/27/2015	29.1	41857
4/28/2015	30.7	44181
4/29/2015	30.3	43631
4/30/2015	30.0	43147

TOTAL DISCHARGE (gal) = 1249402
AVERAGE DAILY DISCHARGE (gal/day)= 41647

VANDALIA-MIGRATION CONTROL
DAILY DISCHARGE REPORT-May 2015

DATE	AVERAGE INFLOW (GPM) BEDROCK/OVERBURDEN/SECOND SAND	DAILY DISCHARGE (GPD)
5/1/2015	29.9	43032
5/2/2015	29.4	42264
5/3/2015	29.0	41738
5/4/2015	28.1	40428
5/5/2015	34.6	49769
5/6/2015	31.0	44598
5/7/2015	30.2	43537
5/8/2015	29.5	42440
5/9/2015	29.1	41935
5/10/2015	28.4	40876
5/11/2015	13.8	19805
5/12/2015	23.6	34026
5/13/2015	28.3	40727
5/14/2015	18.4	26531
5/15/2015	27.4	39496
5/16/2015	31.9	45909
5/17/2015	31.7	45601
5/18/2015	31.0	44594
5/19/2015	31.4	45255
5/20/2015	31.2	44882
5/21/2015	31.2	44870
5/22/2015	31.0	44581
5/23/2015	30.8	44372
5/24/2015	30.8	44347
5/25/2015	24.2	34846
5/26/2015	28.7	41281
5/27/2015	31.0	44594
5/28/2015	25.7	37022
5/29/2015	33.1	47671
5/30/2015	31.2	44958
5/31/2015	31.2	44995

TOTAL DISCHARGE (gal) = 1290978
AVERAGE DAILY DISCHARGE (gal/day)= 41644

VANDALIA-MIGRATION CONTROL
DAILY DISCHARGE REPORT- June 2015

DATE	AVERAGE INFLOW (GPM) BEDROCK/OVERBURDEN/SECOND SAND	DAILY DISCHARGE (GPD)
6/1/2015	31.3	45007
6/2/2015	30.9	44470
6/3/2015	30.7	44238
6/4/2015	29.6	42563
6/5/2015	30.5	43988
6/6/2015	30.7	44142
6/7/2015	27.3	39265
6/8/2015	24.8	35651
6/9/2015	23.8	34278
6/10/2015	24.3	35058
6/11/2015	22.4	32308
6/12/2015	29.1	41920
6/13/2015	28.2	40582
6/14/2015	25.5	36670
6/15/2015	10.2	14666
6/16/2015	20.4	29398
6/17/2015	23.1	33319
6/18/2015	24.3	35008
6/19/2015	24.3	34946
6/20/2015	24.4	35077
6/21/2015	24.4	35129
6/22/2015	24.3	34986
6/23/2015	24.1	34710
6/24/2015	21.0	30250
6/25/2015	22.4	32207
6/26/2015	22.4	32206
6/27/2015	22.4	32257
6/28/2015	22.4	32215
6/29/2015	21.2	30473
6/30/2015	27.4	39397

TOTAL DISCHARGE (gal) = 1076386
AVERAGE DAILY DISCHARGE (gal/day)= 35880

VANDALIA-MIGRATION CONTROL
DAILY DISCHARGE REPORT-July 2015

DATE	AVERAGE INFLOW (GPM) BEDROCK/OVERBURDEN/SECOND SAND	DAILY DISCHARGE (GPD)
7/1/2015	30.5	43917
7/2/2015	25.0	35941
7/3/2015	28.8	41544
7/4/2015	27.7	39826
7/5/2015	26.8	38542
7/6/2015	26.2	37742
7/7/2015	26.7	38414
7/8/2015	27.8	40060
7/9/2015	26.9	38777
7/10/2015	29.6	42553
7/11/2015	29.0	41776
7/12/2015	6.2	8997
7/13/2015	13.8	19845
7/14/2015	31.0	44671
7/15/2015	29.2	42059
7/16/2015	23.8	34278
7/17/2015	26.9	38667
7/18/2015	29.5	42538
7/19/2015	24.8	35661
7/20/2015	13.1	18830
7/21/2015	23.9	34440
7/22/2015	23.5	33888
7/23/2015	27.0	38925
7/24/2015	32.8	47269
7/25/2015	32.1	46172
7/26/2015	31.5	45319
7/27/2015	31.1	44726
7/28/2015	33.7	48499
7/29/2015	38.6	55541
7/30/2015	31.4	45255
7/31/2015	18.3	26365

TOTAL DISCHARGE (gal) = 1191037
AVERAGE DAILY DISCHARGE (gal/day)= 38421

VANDALIA-MIGRATION CONTROL
DAILY DISCHARGE REPORT-August 2015

DATE	AVERAGE INFLOW (GPM) BEDROCK/OVERBURDEN/SECOND SAND	DAILY DISCHARGE (GPD)
8/1/2015	38.2	55012
8/2/2015	30.6	44119
8/3/2015	20.4	29340
8/4/2015	38.8	55861
8/5/2015	37.2	53556
8/6/2015	42.0	60468
8/7/2015	35.7	51415
8/8/2015	37.4	53908
8/9/2015	37.6	54209
8/10/2015	37.2	53637
8/11/2015	36.7	52829
8/12/2015	36.8	53004
8/13/2015	36.5	52498
8/14/2015	36.6	52666
8/15/2015	36.9	53114
8/16/2015	32.4	46654
8/17/2015	17.6	25360
8/18/2015	36.0	51884
8/19/2015	37.6	54082
8/20/2015	38.4	55354
8/21/2015	30.4	43757
8/22/2015	22.0	31631
8/23/2015	38.1	54866
8/24/2015	38.9	56036
8/25/2015	37.6	54132
8/26/2015	37.5	53997
8/27/2015	37.3	53777
8/28/2015	37.4	53785
8/29/2015	37.3	53651
8/30/2015	38.8	55838
8/31/2015	37.8	54403

TOTAL DISCHARGE (gal) = 1574843
AVERAGE DAILY DISCHARGE (gal/day)= 50801

VANDALIA-MIGRATION CONTROL
DAILY DISCHARGE REPORT- September 2015

DATE	AVERAGE INFLOW (GPM) BEDROCK/OVERBURDEN/SECOND SAND	DAILY DISCHARGE (GPD)
9/1/2015	37.6	54078
9/2/2015	33.2	47742
9/3/2015	37.8	54458
9/4/2015	35.0	50395
9/5/2015	33.1	47694
9/6/2015	32.7	47044
9/7/2015	26.5	38218
9/8/2015	25.2	36355
9/9/2015	32.7	47114
9/10/2015	33.3	47911
9/11/2015	35.9	51712
9/12/2015	35.7	51460
9/13/2015	33.8	48692
9/14/2015	33.6	48391
9/15/2015	33.0	47473
9/16/2015	29.2	42017
9/17/2015	31.5	45425
9/18/2015	31.5	45396
9/19/2015	31.7	45648
9/20/2015	31.4	45150
9/21/2015	31.3	45097
9/22/2015	30.8	44401
9/23/2015	30.6	44132
9/24/2015	30.7	44145
9/25/2015	27.4	39464
9/26/2015	24.1	34770
9/27/2015	24.1	34729
9/28/2015	24.2	34790
9/29/2015	26.2	37722
9/30/2015	27.2	39149

TOTAL DISCHARGE (gal) = 1340770
AVERAGE DAILY DISCHARGE (gal/day)= 44692

Attachment D
Groundwater Migration Control System
Activity Log

Vandalia Treatment System
Activity Log

Date	Time on site	Time left site	H&A personnel	Activities while on-site
2/25/15	1530	1430	ELS/MR	BF Change
2/27/15	1530	1530	RP	BF change & Wkly.
3/2/15	1100	1500	RP	NC Sampling, BF change & Wkly Inspection
3/3/15	0800	1630	RP	Carbon change out
3/4/15	0800		RP	Carbon change out
3/5/15	1000	1700	ELS/RP	Carbon change out
3/6/15	1600	2100	CAB	Repair carbon vessel hatches
3/9/15	0900	1800	CAB/WTR	Repair carbon vessel hatches/Restart system
3/11/15	1000	1100	RP	BF change
3/18/15	17:00	17:45	MR	XO Bags
3/20/15	12:00	13:30	MR/RP	XO Bags – Alarm Response – Weekly Inspection
3/23/15	13:50	14:15	WTR	BF Change
3/24/15	10:30	~~12:15~~ 12:30	MR	XO Bags → 301D flooded → ~~Float on Sump Out~~ NEW MR working → Alarm response, system down 11-11:30
3/27/15	9:00	10:15	MR	XO Bags + Weekly Inspection → Clean SPLA Glass
3/31/15	1200		RP	BF change
4/2/15	1000	1300	RP	NC sampling
4/3/15	1300	1410	RP	BF change
4/6/15	1400	1600	ELS	BF change
4/8/15	12:00	1580	MR/RP	BF XO, Alarm, Backflush
4/10/15	1100	1300	ELS/MR	Change BF, Weekly Inspection, Check SS Flow
4/10/15	18:15	19:40	TMV	Alarm Response
4/13/15	12:00	14:00	MR	XO Bags, weekly INSPection
4/15/15	0930	1300	ELS/MR	Adjust SS flow, Change BF, Sample Springs

Vandalia Treatment System
Activity Log

Date	Time on site	Time left site	H&A personnel	Activities while on-site
4-17-15	16:00	17:00	MR	Change out Bag Filters - Remove Trash
4/20/15	10:30	11:30	TMV	Change BF
4/21/15	18:55	19:10	WJR	Change BF
4/22	12:00	13:30	TMV	Alarm Response
4/23/15	11:30	12:30	TMV	Alarm Response
4/24/15	12:45	13:45	MR	Weekly Inspection - Change Out Bag Filters
4/28/15	1130	1300	RP	Weekly Inspection
4/29/15	14:30	15:15	MR	XO Bag Filters
4/30/15			WJR	Cleaning/Inspection
5/1/15	14:30	15:00	WJR	Change BF
5/4/15	10:00	1300	ELS	Alarm Response, Change BF, Reset Breaker Panel B Cir 2
5/5/15	0700	0930	ELS/RP	Change out sump pump
5/6/15	~~1330~~	~~1400~~	ELS	Change BF & Weekly Inspection
5/8/15	1500	1600	ELS	Change BF
5/11/15	1000	1400	ELS/RP	System Alarm Response; Backwash, Change BF
5/12/15	1100	1200	ELS	Maxisperse Shipment Receive & Adjust B2 Pump speed
5/13/15	1500	1600	ELS	Change BF
5/14/15	0900	1800	ELS/MK	Bedrock Pump Change
5/15/15	10:45		MR/RP	Weekly Inspection, Change Bag Filters, DNAPL Well Check, Dump Trash
5/18/15	0930	1000	ELS	Change BF
5/20/15	1230	1330	ELS	Change BF
5/22/15	~~11~~:11:45	12:45	MR	Weekly Inspection, change BF
5/25/15	1230	1430	ELS	System Alarm Response
5/27/15	1200	1300	MR	Bag Filter XO

Vandalia Treatment System
Activity Log

Date	Time on site	Time left site	H&A personnel	Activities while on-site
5/28/15	1000	1200	ECS/MR	System Alarm Response
5/29/15	1130	1330	ECS	Weekly Inspection / Change BF / Change Maxisperse Drum
6/3/15	9:30	10:30	MR/TV	XO Bags
6/3/15	11:15	13:30	MR	XO Bags - Weekly Inspection - System Sampling
6/4/15	1230	1500	RP/MR	Backwash
6/8/15	1400	1530	RP	BF change
6/10/15	1900	1600	RP	Alarm response
6/11/15	13:00	14:30	MR	Alarm Response ASLSHH - Look into float Switch
6/12/15	12:15	~~14:45~~ 14:45	MR	Weekly Inspection
6/15/15	10:06	11:30	MR	XO Bags Alarm Response
6/17/15	16:05	17:50	WJR	Cleaned & inspected AS-float assembly; Change BF
6/19/15	14:50	16:05	WJR	Weekly Inspection / Change BF
6/22/15	13:15	13:45	WJR	Change BF
6/24/15	1030	1230	RP	Change BF
6/24/15	17:20	18:40	WJR	Alarm Response, Change BF
6/26/15	13:00	15:50	WJR	Weekly Inspection, Change BF
6/29/15	13:35		WJR	Alarm Response, Change BF, Clean float
6/30/15	1100	1240	RP	BF Change & Wkly Inspections
6/30/15	1300	1510	WJR	Replaced OB pump controller; Re-started OB pump
6/30/15	1825	1845	WJR	Changed BF
7/2/15	1420		WJR	Changed BF Cleaned float
7/6/15	10:30	12:00	TMV	Change BF
7/9/15	13:45	15:00	TMV	Sample MC Change BF

Vandalia Treatment System
Activity Log

Date	Time on site	Time left site	H&A personnel	Activities while on-site
7/6/15	9:30	13:00	MR	Weekly INSP / BAG Change
7/12/15	13:30	14:30	TMV	Alarm Response
7/16/15	1300	14:00	TMV	Change BF
7/17/15	0900	1000	ELS	Weekly Inspection, change BF
7/20/15	0900	1030	RP	Change BF, Shut down Resp.
7/22/15	10:45	13:00	TMV/WOR	Change BF Adjust OB Pump speed, grease blower/pumps
7/23/15	0940	1245	RP	Replace float assembly, Eyewash refl., Wkly Inspection
7/24/15	13:30	14:30	MR	BF XO
7/27/15	12:30	13:30	MR	BF XO
7/28/15	1145	15:00	MR	Weekly Inspection - O.B. reboot
7/3/15	12:00	13:30	MR	Alarm + Bag XO - Monthly W.L. - XO Maxisperse
7/31/15	17:30	18:30	MR	XO Bag Filter
8/3/15	12:30		MR	Alarm Response - XO Bag Filter - Collect Water Samples
8/5/15	1030	1130	ELS	Change BF
8/7/15	1200	1600	ECS/RP	System Backwash & Weekly Inspection
8/10/15	1030	1140	RP	BF change
8/12/15	1030	1200	ELS	BF change
8/14/15	1230	1500	ELS	Weekly Inspection, BF Change, Grease Motor Points
8/17/15	10:00	11:30	MR	BF XO, Alarm Response
8/18/15	10:45	11:45	MR	BF XO - Plift pressure differential
8/19/15	1400	1500	ECS	Change BF
8/21/15	10:45	12:45	MR	Change BF - Weekly INSP
8/22/15	1100	1230	ECS	Alarm Response
8/24/15	10:15	11:15	MR	XO BF

Vandalia Treatment System
Activity Log

Date	Time on site	Time left site	H&A personnel	Activities while on-site
8/26/15	15:15	16:15	MR	XO Bag Filters
8/28/15	1300	1530	RP	Change BF, Wkly Inspections
8/31/15	1140	1240	ELS	Change Bag Filters
9/2/15	1400	1600	ELS	Change BF, weekly inspection
9/2/15	2130	2300	ELS	Alarm Response
9/4/15	14:30	15:30	WTR	Change BF
9/4/15	19:10	2000	WTR	Alarm response
9/8/15	0700	0830	ELS	Alarm response; Change Bag Filters
9/11/15	1600	1800	MR	XO B.F. Weekly INSP
9/14/15	15:50	1640	WTR	Change BF
9/16/15	1800	1900	MR	Change BF
9/18/15	1230	1430	ELS	Change BF, Weekly Inspection
9/21/15	0930	1030	ELS	Change BF & Switch Maksperse
9/22/15	0930	1030	RP	Change BF
9/25/15	1040	1400	WTR/TK	Restarted flow meter for BR (tripped breaker); Restarted OB pump (OV)
9/24/15	9:38	10:30	TM	Change BF
10/2/15	1230	1430	RP	Wkly, Change BF

Attachment E
Groundwater Migration Control System
Inspection Checklists

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 4/2/15
INSPECTION BY: RP

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		✓	✓	
EYEWASH STATION	X		✓	✓	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		✓	✓	
EMERGENCY LIGHTING	X		✓	✓	
SITE ISSUES	X		✓	✓	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		✓	✓	
SOLID	X		✓	✓	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 4/2/15
INSPECTION BY: RP

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X			Y		
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X						
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D			970.44	
MW-413D			970.13	
MW-414D			971.91	
MW-416D			965.84	

(*) (*) Water levels not recorded/measured due to rain event.

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 4/16/15
INSPECTION BY: M.R. /E.S.

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		✓ Y	N	
EYEWASH STATION	X		✓ Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		✓ Y	N	
EMERGENCY LIGHTING	X		✓ Y	N	
SITE ISSUES	X		✓ Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 4/10/15
INSPECTION BY: M.R. / E.S.

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM						N	
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y		
LOG SYSTEM OPERATING PARAMETERS	X				Y		
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y		
TEST LEVEL CONTROLS ETC.	X				Y		
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y		
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y		
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y		
INSPECT\VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT\VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y		
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y		
VERIFY PUMP OPERATION	X				Y		
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X			Y		
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X				Y		
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y		
CHECK CARBON FILTER PRESSURES	X				Y		
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y		
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D			970.44	
MW-413D			970.13	
MW-414D			971.91	
MW-416D			965.84	

** WATER levels not recorded/measured due to rain event.

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 4/13/15
INSPECTION BY: M R

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 4/13/15
INSPECTION BY: MR

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM					Y	N	
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X				Y	N	
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D	13:00	25.88	970.44	944.56
MW-413D	12:42	25.48	970.13	944.65
MW-414D	12:38	27.18	971.91	944.73
MW-416D	12:54	21.23	965.84	944.61

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 4/24/13
INSPECTION BY: MR

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 4/24/13
INSPECTION BY: MR

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	Y	- Leak in transfer pump
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	Y	Leaking transfer Pump
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X				Y	N	
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D		26.21	970.44	944.23
MW-413D		25.66	970.13	944.47
MW-414D		27.38	971.91	944.53
MW-416D		21.44	965.84	944.40

Capture!

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 4/28/15
INSPECTION BY: RP

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 4/28/15
INSPECTION BY: RP

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT\VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT\VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X						
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D	1235	27.11	970.44	943.33
MW-413D	1230	26.51	970.13	943.62
MW-414D	1220	28.10	971.91	943.81
MW-416D	1225	22.33	965.84	943.51

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 5-6-15
INSPECTION BY: ELS

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 5-6-15
INSPECTION BY: ELS

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT\VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT\VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X				Y	N	
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D	1400	28.05	970.44	942.39
MW-413D	1320	27.71	970.13	942.42
MW-414D	1323	29.35	971.91	942.56
MW-416D	1317	23.41	965.84	942.43

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 5/15/15
INSPECTION BY: Mike Rasmussen

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X	Y	N	
GATES		X	Y	N	
LOCKS		X	Y	N	
SIGNS		X	Y	N	
SITE		X	Y	N	
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 5/15/15
INSPECTION BY: MR

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT\VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT\VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X				-		
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D	11:07	28.82	970.44	941.62
MW-413D	11:05	28.48	970.13	941.65
MW-414D	11:15	30.14	971.91	941.77
MW-416D	11:11	24.21	965.84	941.63

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 5/22/15
INSPECTION BY: MR

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X	Y	N	
GATES		X	Y	N	
LOCKS		X	Y	N	
SIGNS		X	Y	N	
SITE		X	Y	N	
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X	Y	N	
BUILDING		X	Y	N	
RECOVERY WELL		X	Y	N	
ACCESS ROAD		X	Y	N	
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 5/22/15
INSPECTION BY: MR

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT\VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT\VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X				Y	N	
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D		30.92	970.44	939.52
MW-413D		30.52	970.13	939.61
MW-414D		32.23	971.91	939.68
MW-416D		26.28	965.84	939.56

= Capture!

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 5-22-15
INSPECTION BY: ELS

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X	Y	N	
GATES		X	Y	N	
LOCKS		X	Y	N	
SIGNS		X	Y	N	
SITE		X	Y	N	
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X	Y	N	
BUILDING		X	Y	N	
RECOVERY WELL		X	Y	N	
ACCESS ROAD		X	Y	N	
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 5-29-15
INSPECTION BY: ELS

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT\VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT\VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X			Y	N	
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X				Y	N	
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS			X		Y	N	
TRANSFER PUMPS - PERFORM P.M. SERVICE			X		Y	N	
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D	1236	31.25	970.44	939.19
MW-413D	1227	30.89	970.13	939.24
MW-414D	1231	32.59	971.91	939.32
MW-416D	1223	25.66	965.84	940.18

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 6/3/15
INSPECTION BY: Mike Rasmussen

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X	Y		N	
EYEWASH STATION	X	Y		N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X	Y		N	
EMERGENCY LIGHTING	X	Y		N	
SITE ISSUES	X	Y		N	
SITE SECURITY					
FENCING		X	Y	N	
GATES		X	Y	N	
LOCKS		X	Y	N	
SIGNS		X	Y	N	
SITE		X	Y	N	
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X	Y		N	
SOLID	X	Y		N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 6/3/15
INSPECTION BY: Mike Rasmussen

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT\VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT\VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y		
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X				Y	N	Sampled BR,SS,GB,EFF,PreCarb,PreAS
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS			X		Y		
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D	10:08	31.78	970.44	938.66
MW-413D	10:11	31.41	970.13	938.72
MW-414D	9:48	33.11	971.91	938.80
MW-416D	9:58	27.18	965.84	938.66

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 6/12/15
INSPECTION BY: MR

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 6/12/15
INSPECTION BY: MR

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM					Y	N	
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X	Y		Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X				Y	N	
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS			X		Y		
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D	13:00	31.79'	970.44	938.65'
MW-413D	12:45	31.39'	970.13	938.74'
MW-414D	12:57	33.12'	971.91	938.79'
MW-416D	12:51	27.18'	965.84	938.66'

33.12'

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 6/19/15
INSPECTION BY: WJR

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X	Y	N	
GATES		X	Y	N	
LOCKS		X	Y	N	
SIGNS		X	Y	N	
SITE		X	Y	N	
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 6/19/15
INSPECTION BY: WJR

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT\VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT\VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X				-		
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D			970.44	
MW-413D			970.13	
MW-414D			971.91	
MW-416D			965.84	

* Water levels not recorded/measured due to rain event.

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 6/26/15
INSPECTION BY: WJR

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 6/26/15
INSPECTION BY: WJR

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM					Y	N	
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT\VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT\VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X				—		
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D	1355	28.41	970.44	942.03
MW-413D	1320	27.93	970.13	942.20
MW-414D	1312	29.65	971.91	942.26
MW-416D	1328	23.67	965.84	942.17

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 6/30/15
INSPECTION BY: PP

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 6/30/15
INSPECTION BY: RP

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X	Y		Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X			Y		
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X						
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS			X		Y		
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D	1210	28.37	970.44	942.07
MW-413D	1200	27.94	970.13	942.19
MW-414D	1155	29.63	971.91	942.28
MW-416D	1145	23.64	965.84	942.20

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 7/10/15
INSPECTION BY: MR

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	YES	Out of Eyewash - Never Refilled
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 7/10/15
INSPECTION BY: MR

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM					Y	N	
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT\VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT\VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X				Y	N	
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D		27.11	970.44	943.33
MW-413D		26.71	970.13	943.42
MW-414D		28.41	971.91	943.50
MW-416D		22.44	965.84	943.40

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 7-17-15
INSPECTION BY: ELS

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	Y	EYE WASH SOLUTION NEEDS REPLACED
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 7-17-15
INSPECTION BY: ECS

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X				Y	N	
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D	935	25.72	970.44	944.72
MW-413D	924	25.26	970.13	944.87
MW-414D	928	27.02	971.91	944.89
MW-416D	921	20.98	965.84	944.86

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 07/23/15
INSPECTION BY: RP

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 07/23/15
INSPECTION BY: RP

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X						
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D		25.74	970.44	944.70
MW-413D		25.40	970.13	944.73
MW-414D		27.17	971.91	944.74
MW-416D		21.10	965.84	944.74

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 7/28/15
INSPECTION BY: MR

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X	Y	N	
GATES		X	Y	N	
LOCKS		X	Y	N	
SIGNS		X	Y	N	
SITE		X	Y	N	
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 7/20/5
INSPECTION BY: MR

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT\VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT\VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X			Y		
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X				Y	N	
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS			X		Y		
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D		29.35	970.44	941.09
MW-413D		28.96	970.13	941.17
MW-414D		30.66	971.91	941.25
MW-416D		24.66	965.84	941.18

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 8-7-15
INSPECTION BY: ELS

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 8-7-15
INSPECTION BY: GLS

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT\VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT\VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X				Y	N	
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D			970.44	
MW-413D			970.13	
MW-414D			971.91	
MW-416D			965.84	

* NO WATER LEVELS DUE TO SYSTEM BACKWASH

VANDALIA-MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
TABLE 1 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 8-14-15
INSPECTION BY: ECS

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

VANDALIA - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
TABLE 2 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 8-14-15
INSPECTION BY: ELS

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT\VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT\VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		X					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS				X			
TRANSFER PUMPS - PERFORM P.M. SERVICE				X			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS			X				

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	1341	31.93	970.44	938.51
MW-414D	1336	33.27	971.91	938.64
MW-413D	1333	31.55	970.13	938.58
MW-416D	1330	27.27	965.84	938.57

VANDALIA-MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
TABLE 1 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 8/21/15
INSPECTION BY: Mike Rasmussen

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X	Y	N	
GATES		X	Y	N	
LOCKS		X	Y	N	
SIGNS		X	Y	N	
SITE		X	Y	N	
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X	Y	N	
BUILDING		X	Y	N	
RECOVERY WELL		X	Y	N	
ACCESS ROAD		X	Y	N	
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

VANDALIA - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
TABLE 2 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 8/21/15
INSPECTION BY: Michael Rasmussen

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	x				Y	N	
LOG SYSTEM OPERATING PARAMETERS	x				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	x				Y	N	
TEST LEVEL CONTROLS ETC.	x				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	x				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	x				Y	N	
INSPECT\VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				x	N		Test Trip Set Point and Clean Screens and Louvers
INSPECT\VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	x				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	x				Y	N	
VERIFY PUMP OPERATION	x				Y	N	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x			N		
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x			N		
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				x	N		
CHECK BAG FILTER PRESSURES	x				Y	N	
CHECK CARBON FILTER PRESSURES	x				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	x				Y	N	
AMP TRANSFER PUMP MOTORS				x	N		
TRANSFER PUMPS - PERFORM P.M. SERVICE				x	N		
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				x	N		
CHECK & CALIBRATE INSTRUMENTATION				x	N		
MANUALLY OPERATE & CHECK VALVES				x	N		
MANUALLY TEST SAFETY INTERLOCKS			x		N		

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

8/21/15

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	0955	32.35	970.44	938.09
MW-414D	0947	33.62	971.91	938.29
MW-413D	0950	31.91	970.13	938.22
MW-416D	0934	27.63	965.84	938.21

VANDALIA-MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
TABLE 1 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 8/28/15
INSPECTION BY: RP

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

VANDALIA - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
TABLE 2 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 8/28/15
INSPECTION BY: BP

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT\VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT\VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		X					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS				X			
TRANSFER PUMPS - PERFORM P.M. SERVICE				X			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS			X				

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	1400	32.43	970.44	938.01
MW-414D	1350	33.75	971.91	938.16
MW-413D	1340	31.99	970.13	938.14
MW-416D	1330	27.74	965.84	938.10

VANDALIA-MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
TABLE 1 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 9-2-15
INSPECTION BY: GLS

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

VANDALIA - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
TABLE 2 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 9-2-15
INSPECTION BY: ELC

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT\VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT\VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		X					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS				X			
TRANSFER PUMPS - PERFORM P.M. SERVICE				X			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS			X				

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	1455	33.67	970.44	936.77
MW-414D	1450	34.95	971.91	936.96
MW-413D	1445	33.23	970.13	936.90
MW-416D	1440	28.96	965.84	936.88

VANDALIA-MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
TABLE 1 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 9/4/15
INSPECTION BY: MR

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	2	
EYEWASH STATION	X		Y	2	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	2	
EMERGENCY LIGHTING	X		Y	2	
SITE ISSUES	X		Y	2	
SITE SECURITY					
FENCING		X	Y	2	
GATES		X	Y	2	
LOCKS		X	Y	2	
SIGNS		X	Y	2	
SITE		X	Y		
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X	Y	2	
BUILDING		X	Y	2	
RECOVERY WELL		X	Y	2	
ACCESS ROAD		X	Y	2	
WASTE					
CARBON	X		Y	2	
SOLID	X		Y		

Notes:

VANDALIA - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
TABLE 2 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 9/11/15
INSPECTION BY: MR

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM					Y	N	
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT\VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT\VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		X					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS				X			
TRANSFER PUMPS - PERFORM P.M. SERVICE				X			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS			X				

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	13:26	32.87	970.44	937.57
MW-414D	13:23	34.23	971.91	937.68
MW-413D	13:28	22.53	970.13	937.60
MW-416D	13:30	28.28	965.84	937.56

VANDALIA-MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
TABLE 1 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 9-18-15
INSPECTION BY: GLS

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

VANDALIA - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
TABLE 2 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 9-18-15
INSPECTION BY: ECS

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT\VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X		-	Test Trip Set Point and Clean Screens and Louvers
INSPECT\VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		X					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS				X			
TRANSFER PUMPS - PERFORM P.M. SERVICE				X			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS			X				

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	1254	34.28	970.44	936.16
MW-414D	1248	35.58	971.91	936.33
MW-413D	1245	33.84	970.13	936.29
MW-416D	1242	29.59	965.84	936.25

VANDALIA-MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
TABLE 1 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 9/25/15
INSPECTION BY: RP.

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

VANDALIA - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
TABLE 2 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 9/25/15
INSPECTION BY: RP

	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT\VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT\VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		X					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS				X			
TRANSFER PUMPS - PERFORM P.M. SERVICE				X			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS			X				

Notes:

[1] Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	1520	[redacted] 35.01	970.44	935.43
MW-414D	1513	36.31	971.91	935.60
MW-413D	1507	34.6	970.13	935.53
MW-416D	1500	30.40	965.84	935.44

Attachment F
Bedrock Groundwater Migration Control System
Shutdown Reports

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE:	4/8/15
TIME:	14:00
BY:	MR

SYSTEM NAME: GWMC SYSTEM COMPONENT: Carbon Vessels

REASON FOR REPORT: Manual Shutdown for Backflush

REASON FOR SHUTDOWN: Performed backwash on carbon vessels

ACTION TAKEN: Backwash vessels, x0 bag filters, restart system

SHUTDOWN DATE & TIME: 4/8/15 12:30

START-UP DATE & TIME: 4/8/15 14:20

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE ☐ NON-CRITICAL ☐ ROUTINE ☐

INDIVIDUAL NOTIFIED _____

ACTION/RESPONSE _____

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE:	4/10/15
TIME:	19:00
BY:	TMV

SYSTEM NAME: GWNC SYSTEM COMPONENT: Carbon Ves

REASON FOR REPORT: Automatic Shutdown

REASON FOR SHUTDOWN: ASLS HH

ACTION TAKEN: Restart System Power BR Flow

SHUTDOWN DATE & TIME: 4/10/15 16:04

START-UP DATE & TIME: 4/10/15 19:17

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE ☐ NON-CRITICAL ☐ ROUTINE ☐

INDIVIDUAL NOTIFIED _____

ACTION/RESPONSE _____

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE:	4/22/15
TIME:	13:15
BY:	TMV

SYSTEM NAME: GWMC SYSTEM COMPONENT: Carbon Vessels

REASON FOR REPORT: Automatic Shutdown

REASON FOR SHUTDOWN: ASLSHH

ACTION TAKEN: Restart System

SHUTDOWN DATE & TIME: 4/22/15 07:59

START-UP DATE & TIME: 4/22/15 13:14

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE ☐ NON-CRITICAL ☐ ROUTINE ☐

INDIVIDUAL NOTIFIED

ACTION/RESPONSE

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE:	4/23/15
TIME:	11.50
BY:	TMV

SYSTEM NAME: GWMC SYSTEM COMPONENT: Air Stripper tripped starter

REASON FOR REPORT: Automatic shutdown

REASON FOR SHUTDOWN: Process 38

ACTION TAKEN: Restart System Change BF

SHUTDOWN DATE & TIME: 4/23/15 04:45

START-UP DATE & TIME: 4/23/15 11:56

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE [ ] NON-CRITICAL [ ] ROUTINE [ ]

INDIVIDUAL NOTIFIED _____

ACTION/RESPONSE _____

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE:	5/4/2015
TIME:	[redacted]/200
BY:	ELS

SYSTEM NAME: GWMC SYSTEM COMPONENT: ASLSHH

REASON FOR REPORT: AUTOMATIC SHUTDOWN

REASON FOR SHUTDOWN: ASLSHH

ACTION TAKEN: Pumped down sight glass, changed bag filters, restart system

SHUTDOWN DATE & TIME: 5/4/2015 0831

START-UP DATE & TIME: 5/4/2015 1200

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE ☐ NON-CRITICAL ☐ ROUTINE ☐

INDIVIDUAL NOTIFIED _____

ACTION/RESPONSE _____

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE:	5-11-15
TIME:	
BY:	ELS

SYSTEM NAME: GWMC SYSTEM COMPONENT: ASLSHH

REASON FOR REPORT: Automatic Shutdown / System Backwash

REASON FOR SHUTDOWN: ASLSHH

ACTION TAKEN: Pump down sight glass, system backwash, change BF, restart system

SHUTDOWN DATE & TIME: 5/11/2015 1:23

START-UP DATE & TIME: 5/11/2015 13:45

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE ☐ NON-CRITICAL ☐ ROUTINE ☐

INDIVIDUAL NOTIFIED _____

ACTION/RESPONSE _____

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE:	5/14/2015
TIME:	
BY:	ELS

SYSTEM NAME: GWMC SYSTEM COMPONENT: Bedrock Pump

REASON FOR REPORT: Bedrock Pump Change out

REASON FOR SHUTDOWN: Change out bedrock pump

ACTION TAKEN: Replace bedrock pump & rewire pump

SHUTDOWN DATE & TIME: 5/14/2015 09:25

START-UP DATE & TIME: 5/14/2015 17:50

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE ☐ NON-CRITICAL ☐ ROUTINE ☐

INDIVIDUAL NOTIFIED _____

ACTION/RESPONSE _____

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE:	5-25-15
TIME:	1300
BY:	ELS

SYSTEM NAME: GWMC SYSTEM COMPONENT: ASLSHH

REASON FOR REPORT: Automatic Shutdown

REASON FOR SHUTDOWN: ASLSHH Triggered

ACTION TAKEN: Change Bag Filters, Pump Down sight glass reset system,

SHUTDOWN DATE & TIME: 5/25/15 10:34

START-UP DATE & TIME: 5/25/15 13:35

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE ☐ NON-CRITICAL ☐ ROUTINE ☐

INDIVIDUAL NOTIFIED _____

ACTION/RESPONSE _____

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE:	5-28-15
TIME:	10:30
BY:	ELS

SYSTEM NAME: GWMC SYSTEM COMPONENT: ASLSHH

REASON FOR REPORT: Automatic Shutdown

REASON FOR SHUTDOWN: ASLSHH

ACTION TAKEN: Change bag filters, Pump down system sight glass
Restart system.

SHUTDOWN DATE & TIME: 5/28/15 07:30

START-UP DATE & TIME: 5/28/15 10:00

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE ☐ NON-CRITICAL ☐ ROUTINE ☐

INDIVIDUAL NOTIFIED _____

ACTION/RESPONSE _____

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 6/4/15
TIME: 1500
BY: RP

SYSTEM NAME: GWMC SYSTEM COMPONENT: CARBON Vessels

REASON FOR REPORT:
P manual shut down

REASON FOR SHUTDOWN:
Perform Back wash

ACTION TAKEN:
Back wash done on Carbon Vessels

SHUTDOWN DATE & TIME: 6/4/15 @ 1240
START-UP DATE & TIME: 6/4/15 @ 1440

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE [ ] NON-CRITICAL [ ] ROUTINE [ ]

INDIVIDUAL NOTIFIED _____

ACTION/RESPONSE _____

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 6/8/15
TIME: 1630
BY: RP

SYSTEM NAME: GWMC SYSTEM COMPONENT: ASLSHH

REASON FOR REPORT: Auto Shut down

REASON FOR SHUTDOWN:
ASLSHH due to rain event

ACTION TAKEN:
Pump dwn AS, Turn MC back ON

SHUTDOWN DATE & TIME: 6/8/15 @ 1620
START-UP DATE & TIME: 6/8/15 @ 1625

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE [ ] NON-CRITICAL [ ] ROUTINE [ ]

INDIVIDUAL NOTIFIED _____

ACTION/RESPONSE _____

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 6/10/15
TIME: 1530
BY: RP

SYSTEM NAME: GWMC SYSTEM COMPONENT: ASLSHH

REASON FOR REPORT: Auto Shutdown

REASON FOR SHUTDOWN:
ASLSHH

ACTION TAKEN:
cleared Alarm, Turned MC ON

SHUTDOWN DATE & TIME: 6/10/15 ; 1400
START-UP DATE & TIME: 6/10/15 ; 1540

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE [ ] NON-CRITICAL [ ] ROUTINE [ ]

INDIVIDUAL NOTIFIED _____

ACTION/RESPONSE _____

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 6/11/15
TIME: 13:15
BY: Mike Rasmussen

SYSTEM NAME: GWMC SYSTEM COMPONENT: ASLS HH

REASON FOR REPORT: Automatic shutdown

REASON FOR SHUTDOWN: ASLS HH

ACTION TAKEN: Cleaned sight glass and float switch, cleared alarm, restart system, reduce RW %.

SHUTDOWN DATE & TIME: 6/11/15 @ 12:07

START-UP DATE & TIME: 6/11/15 @ 13:30

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE ☐ NON-CRITICAL ☐ ROUTINE ☐

INDIVIDUAL NOTIFIED

ACTION/RESPONSE

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE:	6/15/15
TIME:	10:00
BY:	Mike Rasmussen

SYSTEM NAME: GWMC SYSTEM COMPONENT: ASLSHH

REASON FOR REPORT: Auto shutdown / Alarm

REASON FOR SHUTDOWN: ASLSHH Alarm tripped

ACTION TAKEN: Reset System

SHUTDOWN DATE & TIME: 6-14-15 22:35

START-UP DATE & TIME: 6-15-15 10:30

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE [ ] NON-CRITICAL [ ] ROUTINE [ ]

INDIVIDUAL NOTIFIED _____

ACTION/RESPONSE _____

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 6/15/15
TIME: 16:55
BY: MR + RP

SYSTEM NAME: GWMX SYSTEM COMPONENT: ASLSHH
REASON FOR REPORT: Auto shut down - Alarm

REASON FOR SHUTDOWN: ASLS HH Alarm

ACTION TAKEN: Reset system

SHUTDOWN DATE & TIME: 16:40 ; 6/15
START-UP DATE & TIME: 17:10 ; 6/15
COMMENTS/SUGGESTIONS:
- 03 pump off line

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE ☐ NON-CRITICAL ☐ ROUTINE ☐

INDIVIDUAL NOTIFIED _____

ACTION/RESPONSE _____

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 6/17/15
TIME: 17:30
BY: WJR

SYSTEM NAME: GWMC SYSTEM COMPONENT: AS Float

REASON FOR REPORT: Manual shutdown

REASON FOR SHUTDOWN: AS float assembly inspection

ACTION TAKEN: Cleaned and inspected AS float assembly

SHUTDOWN DATE & TIME: 6/17/15 16:22

START-UP DATE & TIME: 6/17/15 17:11

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE ☐ NON-CRITICAL ☐ ROUTINE ☐

INDIVIDUAL NOTIFIED

ACTION/RESPONSE

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 6/24/15
TIME: 19:00
BY: WJR

SYSTEM NAME: GWMC SYSTEM COMPONENT: ASLSHH

REASON FOR REPORT: Automatic shutdown

REASON FOR SHUTDOWN: ASLSHH

ACTION TAKEN: Restarted system; Reduced BR flow to 20.0 gpm; Changed bag filters

SHUTDOWN DATE & TIME: 6/24/15 15:30 6/24/15 17:55

START-UP DATE & TIME: 17:35 18:00

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE ☐ NON-CRITICAL ☐ ROUTINE ☐

INDIVIDUAL NOTIFIED

ACTION/RESPONSE

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 6/29/15
TIME: 15:30
BY: WJR

SYSTEM NAME: GWMC SYSTEM COMPONENT: ASLSHH

REASON FOR REPORT: Automatic shutdown

REASON FOR SHUTDOWN: ASLSHH

ACTION TAKEN: Changed bag filters; cleaned float; Restarted system

SHUTDOWN DATE & TIME:	6/29/15	11:52	14:07	14:35
START-UP DATE & TIME:	6/29/15	13:49	14:20	14:52

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE ☐ NON-CRITICAL ☐ ROUTINE ☐

INDIVIDUAL NOTIFIED

ACTION/RESPONSE

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 7/2/15
TIME: 15:40
BY: WJR

SYSTEM NAME: GWMC SYSTEM COMPONENT: AS float

REASON FOR REPORT: Manual shutdown

REASON FOR SHUTDOWN: AS float assembly cleaning

ACTION TAKEN: Cleaned AS float assembly; Changed BF

SHUTDOWN DATE & TIME: 7/2/15 14:41

START-UP DATE & TIME: 7/2/15 14:56

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE ☐ NON-CRITICAL ☐ ROUTINE ☐

INDIVIDUAL NOTIFIED

ACTION/RESPONSE

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 7/12/15
TIME: 13:45
BY: TMV

SYSTEM NAME: GW MC SYSTEM COMPONENT: ASLSHH

REASON FOR REPORT: Automatic shutdown

REASON FOR SHUTDOWN: ASESHH activated

ACTION TAKEN: Restart System change BF

SHUTDOWN DATE & TIME: 7/12/15 05:42

START-UP DATE & TIME: 7/13/15 13:50

COMMENTS/SUGGESTIONS:

Change Float assembly

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE [ ] NON-CRITICAL [ ] ROUTINE [ ]

INDIVIDUAL NOTIFIED _____

ACTION/RESPONSE _____

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE:	7/20/15
TIME:	0930
BY:	RP

SYSTEM NAME: GWMC SYSTEM COMPONENT: ASLSHIT

REASON FOR REPORT:

Automatic Shut down

REASON FOR SHUTDOWN:

Air Stripper Float High High alarm triggered.

ACTION TAKEN:

change BF, pumped down AS Sump

SHUTDOWN DATE & TIME: 07/19/15 @ 1925

START-UP DATE & TIME: 07/20/15 @ 0920

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE ☐ NON-CRITICAL ☐ ROUTINE ☐

INDIVIDUAL NOTIFIED _____

ACTION/RESPONSE _____

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE:	07/23/15
TIME:	1100
BY:	RP

SYSTEM NAME: SWMC SYSTEM COMPONENT: AS Float

REASON FOR REPORT:

Manual Shut down

REASON FOR SHUTDOWN:

Manual shut down to Replace AS float assembly.

ACTION TAKEN:

Replaced float assembly. Turned SWMC back ON.

SHUTDOWN DATE & TIME: 07/23/15 @ 0946

START-UP DATE & TIME: 07/23/15 @ 1040

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE [ ] NON-CRITICAL [ ] ROUTINE [ ]

INDIVIDUAL NOTIFIED _____

ACTION/RESPONSE _____

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE:	7/31/15
TIME:	12:30
BY:	Mike Rasmussen

SYSTEM NAME: GWMC SYSTEM COMPONENT: ASLSHH

REASON FOR REPORT: System in Alarm - Shut down

REASON FOR SHUTDOWN: Air Stripper Low side High high Alarm

ACTION TAKEN: XO Bag filters, restart system

SHUTDOWN DATE & TIME: [redacted] 7-31-15 @ 10:00

START-UP DATE & TIME: [redacted] 7-31-15 @ 13:00

COMMENTS/SUGGESTIONS:

Back flush system

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE ☐ NON-CRITICAL ☐ ROUTINE ☐

INDIVIDUAL NOTIFIED _____

ACTION/RESPONSE _____

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 8/3/15
TIME: 12:50
BY: Mike Rasmussen

SYSTEM NAME: GWMC SYSTEM COMPONENT: ASLSHH

REASON FOR REPORT: System shutdown with ASLSHH Alarm

REASON FOR SHUTDOWN: ASLSHH switch

ACTION TAKEN: XO Bag filters, Restart System

SHUTDOWN DATE & TIME: 8/2/15 20:50

START-UP DATE & TIME: 8/3/15 13:00

COMMENTS/SUGGESTIONS:
Back Flush System

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE ☐ NON-CRITICAL ☐ ROUTINE ☐

INDIVIDUAL NOTIFIED _____

ACTION/RESPONSE _____

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE:	8/7/15
TIME:	1600
BY:	ELS

SYSTEM NAME: GWMC **SYSTEM COMPONENT:** Carbon Vessels

REASON FOR REPORT: Shut down for system backwash

REASON FOR SHUTDOWN: Backwash

ACTION TAKEN: Backwash carbon vessels, change bag filters, restart systems

SHUTDOWN DATE & TIME: 8/7/15 12:22

START-UP DATE & TIME: 8/7/15 15:30

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE ☐ **NON-CRITICAL** ☐ **ROUTINE** ☐

INDIVIDUAL NOTIFIED _____

ACTION/RESPONSE _____

VANDALIA - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
FIGURE 1 - SITE VISIT REPORT FORM

DATE: 8/17/15
TIME: 10:00
BY: Mike Rasmussen

SYSTEM NAME: GWMC SYSTEM COMPONENT: ASLSHH

REASON FOR REPORT: System in Alarm & Shutdown

REASON FOR SHUTDOWN: ASLS HH switch tripped alarm

ACTION TAKEN: XO Bag Filters, Clean sight Glass, Restart system

SHUTDOWN DATE & TIME: 8/16/15 @ 10:15pm ⇔ 22:15 HRS

START-UP DATE & TIME: 8/17/15 @ 10:30 am

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER SECTION 4.0

IMMEDIATE ☐ NON-CRITICAL ☐ ROUTINE ☐

INDIVIDUAL NOTIFIED _____

ACTION/RESPONSE _____

VANDALIA - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
FIGURE 1 - SITE VISIT REPORT FORM

DATE:	8-22-15
TIME:	1100
BY:	ELS

SYSTEM NAME: GWMC SYSTEM COMPONENT: ASLSHH

REASON FOR REPORT: Automatic Shutdown

REASON FOR SHUTDOWN: Air Stripper Level Switch High High Alarm

ACTION TAKEN: Pump down sight glass, change bag filters, restart system

SHUTDOWN DATE & TIME: 8-21-15 20:13

START-UP DATE & TIME: 8-22-15 11:30

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER SECTION 4.0

IMMEDIATE ☐ NON-CRITICAL ☐ ROUTINE ☐

INDIVIDUAL NOTIFIED _____

ACTION/RESPONSE _____

VANDALIA - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
FIGURE 1 - SITE VISIT REPORT FORM

DATE:	9-2-15
TIME:	22:30
BY:	ELS

SYSTEM NAME: GWMC SYSTEM COMPONENT: ASLSHH

REASON FOR REPORT: Automatic Shutdown

REASON FOR SHUTDOWN: Air Stripper Level Switch High High Alarm

ACTION TAKEN: Pump down sight glass, ~~Change~~ checked Bag Filters, Restart System.

SHUTDOWN DATE & TIME: 9/2/15 18:43

START-UP DATE & TIME: 9/2/15 22:02

COMMENTS/SUGGESTIONS: System needs acid wash or backwash to relieve pressures.

Carbon pump pressure buildup seems delayed.

REQUIRED REPORT NOTIFICATION PER SECTION 4.0

IMMEDIATE ☐ NON-CRITICAL ☐ ROUTINE ☐

INDIVIDUAL NOTIFIED _____

ACTION/RESPONSE _____

VANDALIA - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
FIGURE 1 - SITE VISIT REPORT FORM

DATE:	9/4/15
TIME:	20:00
BY:	WJR

SYSTEM NAME: GWMC SYSTEM COMPONENT: ASLSHH

REASON FOR REPORT: Automatic Shutdown

REASON FOR SHUTDOWN: ASLSHH

ACTION TAKEN: Restarted system; Reduced BR flow to 24 gpm

SHUTDOWN DATE & TIME: 9/4/15 17:55

START-UP DATE & TIME: 19:30

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER SECTION 4.0

IMMEDIATE ☐ NON-CRITICAL ☐ ROUTINE ☐

INDIVIDUAL NOTIFIED _____

ACTION/RESPONSE _____

VANDALIA - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
FIGURE 1 - SITE VISIT REPORT FORM

DATE:	9-8-15
TIME:	0730
BY:	ECS

SYSTEM NAME: GWMC **SYSTEM COMPONENT:** ASCS HH

REASON FOR REPORT: Automatic Shutdown

REASON FOR SHUTDOWN: Air Stripper level switch high high alarm

ACTION TAKEN: Pumped down sight glass, change bag filters. restart system.

SHUTDOWN DATE & TIME: 9/7/15 20:18

START-UP DATE & TIME: 9/8/15 07:40

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER SECTION 4.0

IMMEDIATE [ ] **NON-CRITICAL** [ ] **ROUTINE** [ ]

INDIVIDUAL NOTIFIED _____

ACTION/RESPONSE _____

VANDALIA - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
FIGURE 1 - SITE VISIT REPORT FORM

DATE:	09/09/15
TIME:	1430
BY:	RP

SYSTEM NAME: SWMC SYSTEM COMPONENT: ~~Blower~~ Carbon Vessels

REASON FOR REPORT:

Manual shut down.

REASON FOR SHUTDOWN:

TO perform system Backwash to relieve pressure in carbon vessels

ACTION TAKEN:

Backwash performed.

SHUTDOWN DATE & TIME: 09/09/15 @ 1150

START-UP DATE & TIME: 09/09/15 @ 1430

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER SECTION 4.0

IMMEDIATE ☐ NON-CRITICAL ☐ ROUTINE ☐

INDIVIDUAL NOTIFIED _____

ACTION/RESPONSE _____

VANDALIA - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
FIGURE 1 - SITE VISIT REPORT FORM

DATE: 9/25/15

TIME: 13:25

BY: WJR

SYSTEM NAME: GWMC **SYSTEM COMPONENT:** ASLSHH

REASON FOR REPORT: Automatic shutdown

REASON FOR SHUTDOWN: Air stripper level switch high high alarm

ACTION TAKEN: Changed BF, Pumped down air stripper, restarted system
Reduced BR flow to 21 gpm
Restarted OB pump (overvoltage)

SHUTDOWN DATE & TIME: 9/25/15 11:40 12:00 12:45

START-UP DATE & TIME: 11:50 12:10 13:00

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER SECTION 4.0

IMMEDIATE ☐ **NON-CRITICAL** ☐ **ROUTINE** ☐

INDIVIDUAL NOTIFIED _____

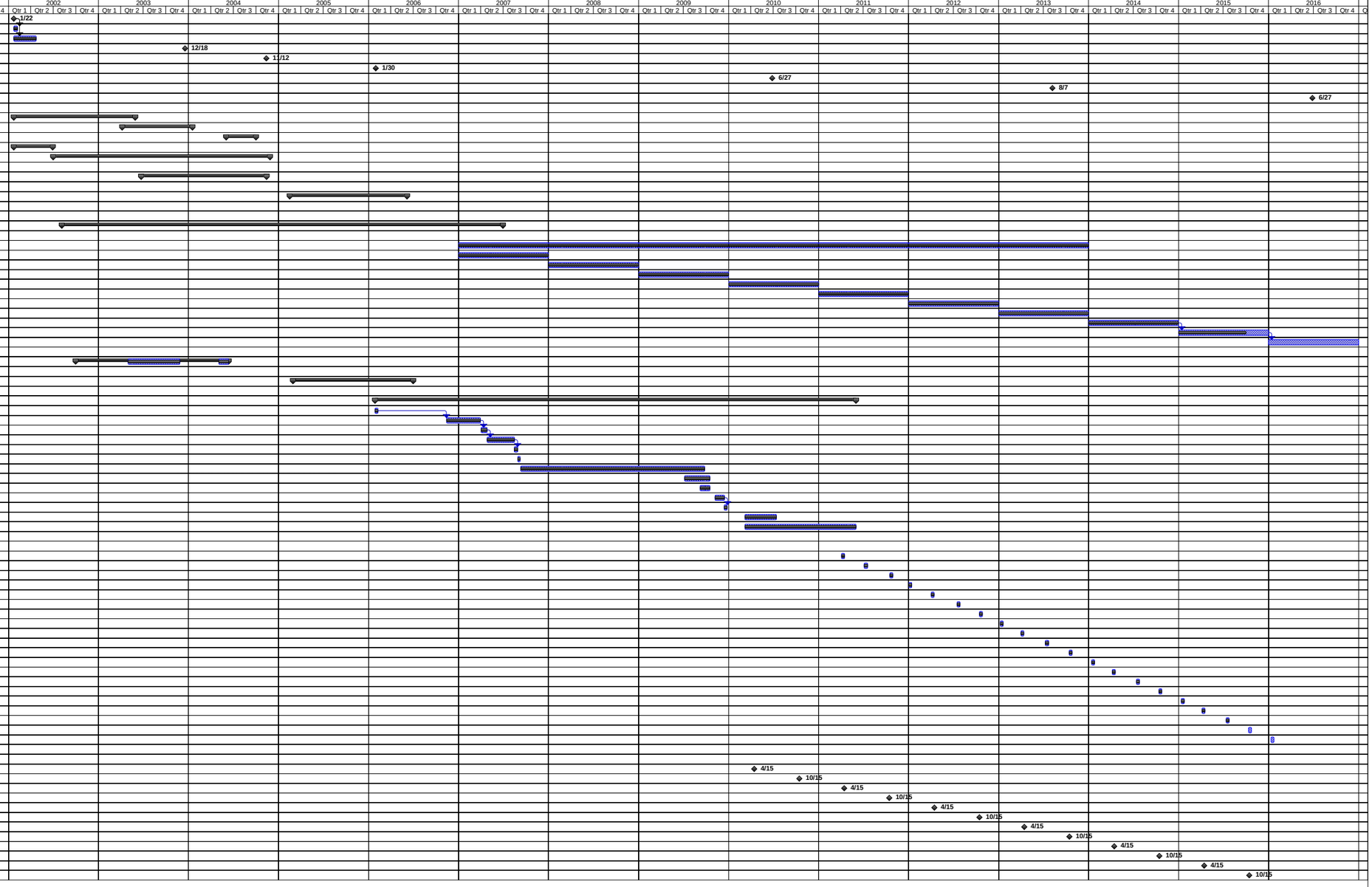
ACTION/RESPONSE _____

Attachment G
Project Schedule

SCHEDULE: MAHLE BEHR DAYTON LLC, VANDALIA,OHIO CORRECTIVE ACTION

Revised Fri 10/9/15

ID	Task Name	% Complete	Duration	Start	Finish
1	**Streamlined Order Executed**	100%	**0 days**	**Tue 1/22/02**	**Tue 1/22/02**
2	**Project Manager Designation**	100%	**11 days**	**Tue 1/22/02**	**Tue 2/5/02**
3	**Interim Measure & Implementation Report**	100%	**65 days**	**Tue 1/22/02**	**Mon 4/22/02**
4	**EI Report - Human Exposures: AOC Deadline 12/31/03**	100%	**1 day**	**Thu 12/18/03**	**Thu 12/18/03**
5	**EI Report - GW Stabilization: AOC Deadline 12/31/04**	100%	**1 day**	**Fri 11/12/04**	**Fri 11/12/04**
6	**Final Corrective Measures Proposal: Extension Granted to 1/30/06**	100%	**1 day**	**Mon 1/30/06**	**Mon 1/30/06**
7	**Three Year Assessment Report 1**	100%	0 days	Sun 6/27/10	Sun 6/27/10
8	**Three Year Assessment Report 2**	100%	0 days	Wed 8/7/13	Wed 8/7/13
9	**Three Year Assessment Report 3**	0%	0 days	Mon 6/27/16	Mon 6/27/16
10					
11	**Offsite Groundwater Investigation**	**100%**	**353 days**	**Tue 1/22/02**	**Thu 5/29/03**
26	**Overburden Groundwater Migration Control Interim Measure**	**100%**	**206 days**	**Mon 4/7/03**	**Fri 1/16/04**
33	**GW Stabilization EI Monitoring (2 mos)**	**100%**	**87 days**	**Wed 6/2/04**	**Thu 9/30/04**
38	**Onsite Investigation Work Plan**	**100%**	**114 days**	**Tue 1/22/02**	**Fri 6/28/02**
48	**Onsite Work Plan Implementation**	**100%**	**631 days**	**Mon 7/1/02**	**Fri 11/26/04**
55					
56	**Environmental Indicators Reports**	**100%**	**366 days**	**Mon 6/23/03**	**Fri 11/12/04**
72					
73	**Investigation Report**	**100%**	**340 days**	**Tue 2/15/05**	**Mon 6/5/06**
80					
81					
82	**Interim Measures**	**100%**	**1284 days**	**Mon 8/5/02**	**Fri 6/29/07**
83					
84	**GW Migration Control O&M**	**87%**	**2616 days**	**Mon 1/1/07**	**Sat 12/31/16**
85	GW Migration Control O&M 5	100%	264 days	Mon 1/1/07	Mon 12/31/07
86	GW Migration Control O&M 6	100%	262 days	Tue 1/1/08	Wed 12/31/08
87	GW Migration Control O&M 7	100%	261 days	Thu 1/1/09	Thu 12/31/09
88	GW Migration Control O&M 8	100%	261 days	Fri 1/1/10	Fri 12/31/10
89	GW Migration Control O&M 9	100%	261 days	Sat 1/1/11	Fri 12/30/11
90	GW Migration Control O&M 10	100%	262 days	Sun 1/1/12	Mon 12/31/12
91	GW Migration Control O&M 11	100%	261 days	Tue 1/1/13	Tue 12/31/13
92	GW Migration Control O&M 12	100%	261 days	Wed 1/1/14	Wed 12/31/14
93	GW Migration Control O&M 13	75%	261 days	Thu 1/1/15	Thu 12/31/15
94	GW Migration Control O&M 14	0%	262 days	Fri 1/1/16	Sat 12/31/16
95					
96	**DNAPL Recovery Design Build**	**100%**	**446 days**	**Mon 9/30/02**	**Fri 6/11/04**
100					
101	**Corrective Measure Proposal**	**100%**	**350 days**	**Mon 2/28/05**	**Fri 6/30/06**
108					
109	**Second Sand Recovery Design Build**	**100%**	**1400 days**	**Fri 1/27/06**	**Wed 6/1/11**
110	Geoprobe and Recovery Well Install	100%	8 days	Fri 1/27/06	Tue 2/7/06
111	Pump Tests	100%	100 days	Mon 11/13/06	Fri 3/30/07
112	Prepare Engineering Assessment	100%	20 days	Mon 4/2/07	Thu 4/26/07
113	Preliminary Design and System Siting	100%	80 days	Fri 4/27/07	Wed 8/15/07
114	Interim System Design	100%	2 wks	Wed 8/15/07	Tue 8/28/07
115	Interim System Install/Start-up	100%	8 days	Wed 8/29/07	Fri 9/7/07
116	Permanent System Final Design	100%	535 days	Mon 9/10/07	Fri 9/25/09
117	Procurement (RFQs, Bid Review, Componenet Purchases)	100%	75 days	Mon 7/6/09	Fri 10/16/09
118	Permitting (NPDES)	100%	30 days	Mon 9/7/09	Fri 10/16/09
119	Build System	100%	26 days	Sat 11/7/09	Mon 12/14/09
120	System Start-up	100%	10 days	Mon 12/14/09	Fri 12/25/09
121	Construction Completion Report	100%	92 days	Mon 3/8/10	Tue 7/13/10
122	Updated O&M Plan	100%	324 days	Mon 3/8/10	Wed 6/1/11
123					
124	**Quarterly GW Sampling**	**90%**	**1256 days**	**Mon 4/4/11**	**Fri 1/22/16**
125	Quarterly GW Sampling 38	100%	2 wks	Mon 4/4/11	Fri 4/15/11
126	Quarterly GW Sampling 39	100%	2 wks	Tue 7/5/11	Mon 7/18/11
127	Quarterly GW Sampling 40	100%	2 wks	Mon 10/17/11	Fri 10/28/11
128	Quarterly GW Sampling 41	100%	2 wks	Mon 1/2/12	Fri 1/13/12
129	Quarterly GW Sampling 42	100%	2 wks	Mon 4/2/12	Fri 4/13/12
130	Quarterly GW Sampling 43	100%	2 wks	Mon 7/16/12	Fri 7/27/12
131	Quarterly GW Sampling 44	100%	2 wks	Mon 10/15/12	Fri 10/26/12
132	Quarterly GW Sampling 45	100%	2 wks	Mon 1/7/13	Fri 1/18/13
133	Quarterly GW Sampling 46	100%	2 wks	Mon 4/1/13	Fri 4/12/13
134	Quarterly GW Sampling 47	100%	2 wks	Tue 7/9/13	Mon 7/22/13
135	Quarterly GW Sampling 48	100%	2 wks	Mon 10/14/13	Fri 10/25/13
136	Quarterly GW Sampling 49	100%	2 wks	Mon 1/13/14	Fri 1/24/14
137	Quarterly GW Sampling 50	100%	2 wks	Mon 4/7/14	Fri 4/18/14
138	Quarterly GW Sampling 51	100%	2 wks	Mon 7/14/14	Fri 7/25/14
139	Quarterly GW Sampling 52	100%	2 wks	Mon 10/13/14	Fri 10/24/14
140	Quarterly GW Sampling 53	100%	2 wks	Mon 1/12/15	Fri 1/23/15
141	Quarterly GW Sampling 54	100%	2 wks	Mon 4/6/15	Fri 4/17/15
142	Quarterly GW Sampling 55	100%	2 wks	Mon 7/13/15	Fri 7/24/15
143	Quarterly GW Sampling 56	0%	2 wks	Mon 10/12/15	Fri 10/23/15
144	Quarterly GW Sampling 57	0%	2 wks	Mon 1/11/16	Fri 1/22/16
145					
146	**Progress Reports**	**100%**	**1437 days**	**Thu 4/15/10**	**Thu 10/15/15**
147	Progress Reports 28	100%	0 days	Thu 4/15/10	Thu 4/15/10
148	Progress Reports 29	100%	0 days	Fri 10/15/10	Fri 10/15/10
149	Progress Reports 30	100%	0 days	Fri 4/15/11	Fri 4/15/11
150	Progress Reports 31	100%	0 days	Sat 10/15/11	Sat 10/15/11
151	Progress Reports 31	100%	0 days	Sun 4/15/12	Sun 4/15/12
152	Progress Reports 32	100%	0 days	Mon 10/15/12	Mon 10/15/12
153	Progress Reports 33	100%	0 days	Mon 4/15/13	Mon 4/15/13
154	Progress Report 34	100%	0 days	Tue 10/15/13	Tue 10/15/13
155	Progress Report 35	100%	0 days	Tue 4/15/14	Tue 4/15/14
156	Progress Report 36	100%	0 days	Wed 10/15/14	Wed 10/15/14
157	Progress Report 37	100%	0 days	Wed 4/15/15	Wed 4/15/15
158	Progress Report 38	100%	0 days	Thu 10/15/15	Thu 10/15/15



Project: MAHLE Behr Dayton LLC, Vandalia, OH

Task | Milestone | Rolled Up Task | Rolled Up Milestone | External Tasks | External Milestone | Inactive Milestone | Manual Task | Manual Summary Rollup | Start-only | Progress

Split | Summary | Rolled Up Split | Rolled Up Progress | Project Summary | Inactive Task | Inactive Summary | Duration-only | Manual Summary | Finish-only | Deadline

Notes and Abbreviations:
1. Schedule may be revised as necessary to accomodate unexpected field conditions or inclement weather.